

# Revise Flora of the Santa Monica Mountains

## Final Report

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Arthur C. Gibson  
Barry A. Prigge

Herbarium  
University of California  
Los Angeles, California 90095-1606

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This report consists of over 36,000 plant records (collections and sightings) contained in the Santa Monica Mountains-Simi Hills (SMMSH) database and associated files, which are on the enclosed compact disc. A summary of the database is presented in Table 1, which lists the number of vouchers (herbarium specimens) and reports for each species from the Santa Monica Mountains and from the Simi Hills. Unlike the SMMSH database that only lists taxa with documented records, the summary lists all taxa reported for the two areas even though we have yet to find vouchers or reports with location data to substantiate the listing of some taxa. The list clearly shows the taxa that have adequate documentation, and those that do not. As we proceed with this project, those species that cannot be substantiated will be eliminated.

The database includes the vascular plants specimens in selected herbaria, sightings from field surveys, and written reports (environmental impact reports, checklists and other reports) as elaborated below.

**Herbaria.** The database includes specimens from the following herbaria:

1. The UCLA herbarium (LA). This was a thorough search of the herbarium but does not include a few taxa (*Lepechinia*, *Lomatium*, *Stachys*, and *Stellaria*) that are on loan to researchers at other institutions.

2. The Santa Monica Mountains National Recreation Area (SMMNRA) herbarium. This was based on the conversion of SMMNRA herbarium database which was kindly provided by Phil Bedel.
3. The integrated herbaria of Ranchos Santa Ana Botanic Garden (RSA) and Pomona College (POM). This search was limited to species that are reported from the Santa Monica Mountains or Simi Hills but are either not represented or poorly represented in the UCLA herbarium. The search of RSA and POM is ongoing.
4. University and Jepson Herbaria (UC & JEPS). The website (<http://ucjeps.berkeley.edu>) of these herbaria was consulted for their holdings of selected species that are not at LA or are historical collections listed in Raven et al. (1986).

**Field Survey Lists.** Species listed from various sites within the Santa Monica Mountains or Simi Hills were entered into the database as sightings. Some of the more extensive checklists included in the database are from:

1. Arroyo Conejo-Wildwood Park
2. Arroyo Sequit
3. Camarillo Oak Grove County Park–Newbury Park Academy, slopes and ridges between
4. Cheeseboro Canyon
5. China Flats, Simi Hills
6. Griffith Park
7. Mountclef Ridge
8. Old Topanga Road
9. Rocky Oaks
10. Runyon Canyon
11. Santa Ynez Canyon
12. Satwiwa area
13. Solstice Canyon

14. Topanga Canyon
15. Topanga Canyon State Park: Trailer Ridge, Sta Ynez Cyn, ridge between Rivas and Rustic canyons
16. Will Rogers State Park
17. Zuma Ridge Motorway
18. Seed germination studies of soil collected from Malibu Salt Marsh and Mugu Salt Marsh. Studies conducted by Sean Anderson, plant identification by BAP.

**Consulting reports.** Numerous environmental impact reports (EIR's) for proposed developments and species checklists for parks within the Santa Monica Mountains and the Simi Hills provided extensive plant lists (Table 2). From these reports, species and their locations were entered into the database. Frequency and associated plant community, if indicated, were also entered.

#### **Data Entry.**

Information from each herbarium specimen, each plant sighting, and each species listed in a report was entered into the database. Data was partitioned among the different files as described in Database Documentation at the end of this report. In general, information specific to the collection or sighting is stored in SMMSH file; nomenclatural information, TAXA; collector and source of sighting or checklist, COLLECTOR; location data, LOCATION; and ecological information, ECODATA. Most of the data entry does not require any further explanation except for the location data.

#### Location Data

Herbarium specimens were entered as point locations in Universal Transverse Mercator (UTM) coordinates unless the location information on the label specifically defines an area. In the latter case, UTM coordinates were given for the SW and NE corner of a rectangular area. Point locations are assigned an error value (in meters) based on how precise the label data is and how confident we are that we have located

the site on a map. The error value thus defines an area around the point where the location probably occurs, i.e. small error value is high accuracy. Vague localities receive a point location and either an accuracy of "9999" (to signify that we cannot locate the site with any degree of accuracy) or the distance from a centrally located point to the park boundary. Thus, a label that only lists Topanga Canyon for the location would receive a point location that is in Topanga Canyon and an error of "9999", and labels with location of only Griffith Park would receive a centrally located point in the park and an error of 1500 m (approximately the distance to the park boundary). However, the error term is generally not a radius term. Because most localities are along roads, streams, trails, or in canyons, the error term is better considered as a distance up or down such features as indicated in the location data.

The location records are not literal transcriptions of the label information, but are generic. This permits a location record to be used for specimens collected from the same location but by other collectors, and it minimizes the inflation of records in the LOCATION database.

Species listed from field sightings can be point, transect, or area locations. Transect locations are used for plants that were listed along a segment of a trail or road. These locations are given the UTM coordinates for the end points of the transect, and to differentiate such locations from a rectangular area, an "F" is entered into the field RECTANGLE.

Consulting reports and checklists for parks provided plant lists for areas. The method of recording the locations for the listed plants presented problems as to how the geographic occurrence of the plants should be reported. Except of a few cases where a central point was used (In such cases the ERROR value then becomes a radius as indicated by "CPT" in the RECTANGLE field), we opted to report locations as

rectangular areas defined by UTM coordinates for the SW and NE corner of a rectangle. Such a method works well for sites with boundaries that are North-South and East-West, but for sites with diagonal or irregularly boundaries, a single rectangle cannot match the area and results in a misrepresentation of the area covered. Initially, we divided such irregular areas into a series of rectangles such that under or over representation of the area covered was minimized. No single rectangle was larger than 1 km<sup>2</sup> or occurred in more than one grid formed by the 1 km UTM grid lines. Such subdividing was suitable for small tracts, but with large tracts, many rectangles would be required. Using this procedure, the Ahmanson Ranch, for example, would require more than 20 rectangles and would inflate the checklist by over 20 times -- each species listed in the EIR report would be listed for each rectangle. To minimize this inflation, an area was subdivided into as few rectangles as possible. There was no limitation on their size, but an adequate number were required to minimize any distortion of the actual area covered by the report.

Unfortunately, the above procedure may list a species for areas where it does not occur. This is especially true for rare plants that occur in only one spot within the area covered. For example, *Nolina cismontana* is reported in the Oak Park EIR, which covers over 10 km<sup>2</sup>, and is listed for all six of the rectangles used to define this site. It probably occurs in only a very small area within the proposed development and not all over the site as indicated. Future field surveys will correct problems like this, but until then, all locations based on EIR's or checklists for large areas must be used cautiously. In the SMMSH database all plant records from such reports can be identified by a number greater than 999 in the C1 field, and in the LOCATION database there is a tentative tract, parcel map, zone change, or conditional use permit number in the TRACT field or there may be the name of the development in the TRACT field.

In some cases where the EIR lists the plant communities that each species occurs in and has a map of the vegetation or plant communities, we correlated plant community distribution with the rectangles used to partition the site. Thus, we were able to list species only for rectangles that contained the appropriate plant communities.

In cases where the report lists the plant communities in which the plant occurs but no plant community map is presented, there was no way to correlate rectangles with plant community. Plants from these sites were initially entered as many times for each rectangle as there were plant communities. Thus a plant that occurred in three plant communities would be listed three times for each rectangle. To eliminate inflation of the database from this technique, we changed the structure of the SMMSH database so that several plant communities (fields EN1 to EN6) could be associated for one species record in SMMSH

Records entered prior to the above changes were left unchanged because there would be no information gained by converting to the new format.

## Nomenclature

We have updated the nomenclature used in the old flora (Raven et al. 1986) so that in most cases the names and authorities are those of *The Jepson Manual* (Hickman et al. 1992). However, some may differ because they have been named since its publication, e.g., *Nolina cismontane*, or recent publications have raised arguments to support the use of another name, e.g., *Yucca whipplei* becomes *Hesperoyucca whipplei*. The website of the Jepson and University Herbaria (<http://ucjeps.berkeley.edu>) lists corrections and other name changes that have occurred since 1992, but we have not systematically reviewed all the taxa. Author names are consistent with the authorities used in *The Jepson Manual*, which was consistent those listed by Brummitt and Powell (1992). However, the International Plant Names Index has put Brummitt and Powell

(1992) on their web site (<http://www.ipni.org>) with updates and some changes in the way authors names are abbreviated or whether or not first name or first name initials are used. Some of these changes (e.g. "E. Greene" now goes to "Greene") we have accidentally become aware of, but we have not checked author names for consistency with the International Plant Names Index.

However, the family that the species is assigned to may differ from that of the Jepson Manual, especially for the Monocotyledons.

### **Editing**

We have edited much of the data entered as noted by the CHKDATE field in the SMMSH, and EDITED in LOCATION databases. A value in the NOMEN field of TAXA indicates that the spelling and nomenclature have been checked. Unfortunately, there have been a few inadvertent changes or deletions to previously edited records. We are currently comparing the most recent database files with archived files to correct these errors. Errors found will be corrected and forwarded to the Santa Monica National Recreation Area.

## **Database Documentation**

The following files are on the enclosed compact disc as Microsoft Excel files that can be converted and modified into formats that conform to your database. The following information on relationships between database files and the characteristics of the fields is presented to facilitate file conversion.

### **Relationship of files**

<b>FILE</b> by FIELD	is linked to	<b>FILE</b> FIELD
<b>SMMSH</b>		<b>TAXA</b>
CODE		SPCODE
		<b>COLLECTOR</b>
C1		CLCTRNO
C2		CLCTRNO
C3		CLCTRNO
C4		CLCTRNO
		<b>LOCATION</b>
LN		LN
		<b>ECODATA</b>
EN1 to EN6		EN
,		

**Database Files.** The data fields contained in the enclosed database are listed below with comments where needed.

<b>File</b>	<b>Field</b>	<b>Comments</b>
<b>SMMSH</b>		
1. PN		a serial number
2. SORT		Use to sort taxa into higher groupings: A = club mosses, B = horsetails, C = ferns, D = conifers, F = flowering plants, dicots, G = flowering plants, monocots.
3. Q		A "?" in this field indicates a questionable identification.
4. CODE		Code for taxon name.
5. LN		Location Number. Link to LOCATION File.

6. C1 Collector Number. Either the collector or the source of the listing, i.e. a field sighting or a report.
7. C2 Collector Number for other collectors.
8. C3 “ “
9. C4 “ “
10. CN Collection number. Generally a number but may be an alphanumeric or in the case where an herbarium specimen has no collection number, then the herbarium acronym and accession number are used.
11. DETBY Determined by (the person who made the most recent ID)
12. DATEDET Date determined (usually only year is entered)
13. COLDATE Collection date.
14. PHENOLOGY Earliest condition observed: dormant, leafing out, vegetative, bud, flowering, fruiting, dead and variation thereof.
15. PHENOLOGY2 Latest condition observed.
16. HERBARIA Herbaria (with accession number) where collection occurs.
17. FREQ Frequency as listed on herbarium label or the following sequence: rare < infrequent = uncommon < frequent = common < very frequent = very common < abundant. Dominant is sometimes used but is not necessarily equivalent to abundant.
18. HABIT Annual, biennial, perennial, subshrub, shrub, and tree as indicated on label or discernable from specimen. For a complete range of habits exhibited by a species refer to the taxon file.
19. FLCOLOR As described on label.
20. FLCOLCODE Dominant or primary color. Can be used to group taxa by flower color.
21. FLCOLCODE2 Secondary color
22. EN1 to EN6 Ecology Number. Link to ECODATA File.
23. NOTES
24. CHKDATE A date indicates that the data was checked for accuracy.
- 25.

## **COLLECTORS**

1. CLCTRNO      The reference number for the collector, the observer, or the report from which the locality was gleaned. Collectors have numbers < 900, sightings have numbers > 899 but < 1000, and reports have numbers > 999.
2. LASTNAME      Last name of the collector or the name of the company or agency that wrote the report/checklist followed by the date of report.
3. FIRST\_MIDN      First and middle name or initials.
4. TRACT      Tentative Tract Number, Preliminary Map Number, Zone Change, Conditional Use permit or other identifying number. Used only for consulting reports.
5. TITLE      Title of report. Used only for consulting reports.

## **LOCATION**

- Note that MTNRANGE replaces REGCODE
1. LN      Location number
  2. COUNTY      Three letter abbreviation: LAX=Los Angeles, VNT=Ventura.
  3. DIRECTIONS
  4. MTNRANGE      Santa Monica Mountains or Simi Hills.
  5. NORTHSOUTH S = coastal side of Sta Monica Mtns, N = inland side of Sta Monica Mtns
  6. PARK\_RES      A discrete unit such as a state or county park, university reserve, university campus, etc.
  7. TOPO\_FEAT      Canyon, ridge, lake, peak, or other named topographic feature.
  8. QUAD      7.5' topographic quadrangle.
  9. QUAD2      Used when the location occurs in two quadrangles or the location is imprecise and could not be accurately placed in just one quadrangle.

10. EASTING1      For point references, only a pair of coordinates are used.  
                      UTM coordinates are based on NAD1927 reference and the  
                      UTM Zone is 11. Coordinates for field surveyed sites were  
                      taken with a GPS unit and are uncorrected
11. NORTHING1
12. EASTING2      A second set of UTM coordinates is used for rectangular  
                      areas or linear transects as indicated under RECTANGLE  
                      below.
13. NORTHING2
14. LOCMOD      Location Modifier. If RECT, then treat the above  
                      coordinates  
                      as the SW and NE corners of a rectangle.  
                      If TRNSCT, then treat the above coordinates as the end  
                      points of a transect or trail segment along which the plants  
                      were observed.  
                      If CPT, then treat as the center point of the development,  
                      tentative tract, parcel map, etc. In this case, the ERROR  
                      term is treated as  $\pm$  as a radius.
15. ERROR      An error measure (accuracy) in meters was assigned to  
                      represent our confidence in the UTM value assigned to the  
                      location. Thus, the UTM coordinates  $\pm$  the error term  
                      defines the area where the plant occurs.  
  
                      For label data, sites were located as best as possible from  
                      information on the label. Discrepancies between the  
                      distance from a reference point and the elevation were  
                      reconciled as follows:  
  
                      a. distance directions generally took priority on roads  
                      because mileage is usually more accurate than altimeters.  
                      b. elevations were given more importance for peaks, bench  
                      marks, margins of a lake or reservoir, or other topographic  
                      features that have elevation indicated on a map.  
                      c. convenient stopping points (where roads crossed  
                      streams, road intersections, etc.) that were near to places  
                      indicated on the label were assumed to be the site of

	collection.
	d. In the case where there is nothing to reconcile differences between elevation and distance from a reference point, the UTM coordinates are approximately mid-way between the two points.
16. CELEV	In cases where the given elevation is obviously incorrect, a corrected elevation is listed or where no elevation is listed on herbarium label, an elevation is determined from location data.
17. MINELEV	
18. MAXELEV	
19. ELEVUNITS	ft or m
20. TRACT	The tentative tract number (TT), parcel map number (PM), zone change number (ZC), conditional use permit number (CU), or the name of the development. See Table 1 for source of checklists.
21. EDITED	A date indicates data was checked for accuracy

## ECODATA

1. EN	Ecology Number, a serial number
2. PLTCOMM	Plant community/vegetation.
3. HABITAT	
4. SLOPE	Degree of slope.
5. ASPECT	Direction the slope is facing.
6. SHADING	Sunny to shaded
7. SOILTEXT	Soil texture or some general soil characteristic.
8. INCLUSIONS	Gravel, stones, and rocks in the soil.
9. SUBSTRATE	Parent rock type, alluvium, cracks and crevices
10. SALINITY	Used primarily with coastal sites (marshes and lagoons) to indicate degree of salinity (fresh, brackish, saline)
11. MOISTURE	Moisture of soil or habitat at time specimen was collected
12. DISTURBANC	Level of disturbance of the site or if the site was recently burned.

## TAXA

1. TN	Taxon number, a serial number
2. SPCODE	A letter code for the taxon (3 letters for family, 3 letters for genus, 3 letters for specific epithet, S for subspecies or V for variety, and 3 letters for subspecies/varietal epithet).
3. JPSCODE	A letter code for name used by <i>The Jepson Manual</i>
4. MNZCODE	A letter code for name used by Munz's <i>A Flora of Southern California</i>
5. SORT	See above under SMMSH file
6. FAMILY	Family name without "aceae" ending
7. GENUS	
8. SH	Species hybrid
9. SPECIES	
10. AUTH1	Authority for specific epithet
11. SSP	Subspecies
12. AUTH2	Authority for subspecific epithet
13. VAR	Variety
14. AUTH3	Authority for varietal epithet
15. NOMEN	Used to indicate source for nomenclature. Usually the Jepson for the <i>Jepson Manual</i> but also RHS for <i>Dictionary of Gardening</i> by the Royal Horticultural Society (Huxley 1992) or FNA for <i>Flora of North America</i> (FNA Ed. Committee 1993-), TROPICOS ( <a href="http://mobot.org/W3T/search/vast.html">http://mobot.org/W3T/search/vast.html</a> ). If this field is not blank, then this record has been checked for spelling of taxa and authorities. Family placement may differ from that of <i>The Jepson Manual</i> , especially for the Monocots.
16. COMMONNAME	
17. COMMONNAME2	As used in <i>The Jepson Manual</i> .
	Native Distribution
18. SMM SH	T = native, F = non-native, ? = uncertain
19. Native Region	Lists native region for non-native taxa

Remaining fields are T/F fields for habit

## **Literature Cited**

- Brummitt, R.K. and C.E. Powell (eds.) 1992. *Authors of Plant Names*. Royal Botanic Gardens, Kew. Kew.
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- Raven, P.H., H.J. Thompson, B.A. Prigge. 1986. *Flora of the Santa Monica Mountains*, 2<sup>nd</sup> Ed. Southern California Botanists, Spec. Publ. 2.

Table 1. A summary of the vascular plants in the SMM SH database for the Santa Monica Mountains and the SimiHills: V equals number of herbarium specimens and R equals number of EIR reports or checklists listing the species.

FAMILY <sup>1</sup>	Species <sup>2</sup>	Sta Monica Mtns		Simi Hills	
		V <sup>3</sup>	R	V <sup>3</sup>	R
<b>Non-flowering Plants</b>					
Selaginell	<i>Selaginella bigelovii</i>	37	21	4	5
Equiset	<i>Equisetum arvense</i>	0	3	0	0
Equiset	<i>Equisetum hyemale subsp. affine</i>	3	0	0	0
Equiset	<i>Equisetum laevigatum</i>	14	3	0	0
Equiset	<i>Equisetum talmateia subsp. braunii</i>	14	4	0	0
Equiset	<i>Equisetum X ferrissii</i>	5	0	0	0
Asplen	<i>Asplenium vespertinum</i>	1	0	0	0
Azoll	<i>Azolla filiculoides</i>	2	1	0	0
Blechn	<i>Woodwardia fimbriata</i>	7	1	0	0
Dennstaedti	<i>Pteridium aquilinum</i> var. <i>pubescens</i>	17	6	0	2
Dryopterid	<i>Dryopteris arguta</i>	56	14	0	0
Marsile	<i>Marsilea vestita</i> subsp. <i>vestita</i>	0	0	0	0
Polypodi	<i>Polypodium californicum</i>	50	20	3	2
Pterid	<i>Adiantum capillus-veneris</i>	8	3	0	0
Pterid	<i>Adiantum jordanii</i>	43	19	1	5
Pterid	<i>Aspidotis californica</i>	25	9	1	0
Pterid	<i>Cheilanthes cooperae</i>	0	0	0	0
Pterid	<i>Cheilanthes covillei</i>	2	0	0	0
Pterid	<i>Cheilanthes newberryi</i>	1	0	0	0
Pterid	<i>Notholaena californica</i>	5	0	1	0
Pterid	<i>Pellaea andromedifolia</i>	42	18	0	5
Pterid	<i>Pellaea mucronata</i> var. <i>mucronata</i>	23	13	0	5
Pterid	<i>Pentagramma triangularis</i> subsp. <i>triangularis</i>	51	22	0	8
Thelypterid	<i>Thelypteris puberula</i> var. <i>sonorensis</i>	1	0	0	0
Cupress	<i>Juniperus californica</i>	2	4	0	0
<b>Flowering Plants - Dicots</b>					
Acer	<i>Acer macrophyllum</i>	5	2	0	0
Acer	<i>Acer negundo</i> var. <i>californicum</i>	1	0	0	0
Aizo	<i>Aptenia cordifolia</i>	1	0	0	0
Aizo	<i>Carpobrotus chilensis</i>	0	4	0	0
Aizo	<i>Carpobrotus edulis</i>	4	9	0	0
Aizo	<i>Galenia pubescens</i> var. <i>pubescens</i>	1	0	0	0
Aizo	<i>Malephora crocea</i>	2	0	0	0
Aizo	<i>Mesembryanthemum crystallinum</i>	3	8	0	0
Aizo	<i>Mesembryanthemum nodiflorum</i>	2	3	0	0
Aizo	<i>Tetragonia tetragonoides</i>	1	2	0	0
Amaranth	<i>Amaranthus albus</i>	3	12	0	2
Amaranth	<i>Amaranthus blitoides</i>	2	10	0	1
Amaranth	<i>Amaranthus californicus</i>	2	0	0	0
Amaranth	<i>Amaranthus deflexus</i>	2	0	0	0
Amaranth	<i>Amaranthus powellii</i>	2	0	0	0
Amaranth	<i>Amaranthus retroflexus</i>	4	4	0	1
Anacardi	<i>Malosma laurina</i>	10	94	0	12

FAMILY <sup>1</sup>	Species <sup>2</sup>	Sta Monica Mtns		Simi Hills	
		V <sup>3</sup>	R	V <sup>3</sup>	R
Anacardi	<i>Rhus integrifolia</i>	12	37	0	4
Anacardi	<i>Rhus ovata</i>	14	75	0	8
Anacardi	<i>Rhus trilobata</i>	7	4	0	7
Anacardi	<i>Schinus molle</i>	0	19	0	5
Anacardi	<i>Schinus terebinthifolius</i>	0	2	0	0
Anacardi	<i>Toxicodendron diversilobum</i>	8	77	0	11
Api	<i>Angelica tomentosa</i>	0	0	0	1
Api	<i>Anthriscus caucalis</i>	3	8	0	0
Api	<i>Apiastrum angustifolium</i>	13	11	1	4
Api	<i>Apium graveolens</i>	4	8	0	0
Api	<i>Berula erecta</i>	0	0	0	0
Api	<i>Bowlesia incana</i>	3	6	1	1
Api	<i>Ciclospermum leptophyllum</i>	0	0	0	0
Api	<i>Conium maculatum</i>	3	14	0	1
Api	<i>Daucus pusillus</i>	7	20	0	1
Api	<i>Foeniculum vulgare</i>	3	60	0	3
Api	<i>Hydrocotyle moschata</i>	0	0	0	0
Api	<i>Hydrocotyle ranunculoides</i>	0	2	0	0
Api	<i>Hydrocotyle umbellata</i>	0	0	0	0
Api	<i>Lomatium dasycarpum subsp. dasycarpum</i>	7	6	0	1
Api	<i>Lomatium lucidum</i>	4	1	0	0
Api	<i>Lomatium utriculatum</i>	1	10	0	4
Api	<i>Oenanthe sarmentosa</i>	0	0	0	0
Api	<i>Osmorhiza brachypoda</i>	4	0	0	0
Api	<i>Sanicula arguta</i>	12	6	2	5
Api	<i>Sanicula bipinnata</i>	1	1	0	1
Api	<i>Sanicula crassicaulis</i>	9	21	0	3
Api	<i>Sanicula tuberosa</i>	6	6	0	1
Api	<i>Scandix pecten-veneris</i>	1	1	0	0
Api	<i>Tauschia arguta</i>	8	14	1	3
Api	<i>Tauschia hartwegii</i>	3	11	0	0
Api	<i>Torilis arvensis</i>	0	1	0	0
Api	<i>Torilis nodosa</i>	0	2	0	0
Api	<i>Yabea microcarpa</i>	1	8	0	0
Apocyn	<i>Apocynum cannabinum</i>	1	0	0	0
Apocyn	<i>Vinca major</i>	0	4	0	0
Asclepiad	<i>Asclepias californica</i>	2	9	0	2
Asclepiad	<i>Asclepias eriocarpa</i>	1	5	0	2
Asclepiad	<i>Asclepias fascicularis</i>	8	38	0	8
Asclepiad	<i>Sarcostemma cynanchoides subsp. hartwegii</i>	1	4	0	0
Aster	<i>Achillea millefolium</i>	3	8	1	4
Aster	<i>Achyrachaena mollis</i>	3	5	0	3
Aster	<i>Acourtia microcephala</i>	9	28	0	10
Aster	<i>Acroptilon repens</i>	1	1	0	0
Aster	<i>Ageratina adenophora</i>	8	0	0	0
Aster	<i>Agoseris grandiflora</i>	4	6	0	1
Aster	<i>Agoseris heterophylla</i>	0	1	0	0
Aster	<i>Amblyopappus pusillus</i>	2	0	0	0
Aster	<i>Ambrosia acanthicarpa</i>	2	2	0	1

Table 1. Page 2

FAMILY <sup>1</sup>	Species <sup>2</sup>	Sta Monica Mtns		Simi Hills	
		V <sup>3</sup>	R	V <sup>3</sup>	R
Aster	<i>Ambrosia chamissonis</i>	2	4	0	0
Aster	<i>Ambrosia confertiflora</i>	1	0	0	0
Aster	<i>Ambrosia psilostachya</i>	7	52	1	8
Aster	<i>Anaphalis margaritacea</i>	0	1	0	0
Aster	<i>Ancistrocarphus filagineus</i>	0	2	0	0
Aster	<i>Anthemis cotula</i>	2	6	0	0
Aster	<i>Artemisia biennis</i>	4	3	0	0
Aster	<i>Artemisia californica</i>	15	103	0	13
Aster	<i>Artemisia douglasiana</i>	12	47	0	7
Aster	<i>Artemisia dracunculus</i>	6	9	0	4
Aster	<i>Artemisia tridentata</i> subsp. <i>parishii</i>	0	1	0	0
Aster	<i>Aster lanceolatus</i> subsp. <i>hesperius</i>	0	1	0	0
Aster	<i>Aster subulatus</i> var. <i>ligulatus</i>	5	2	0	0
Aster	<i>Baccharis douglasii</i>	2	1	0	0
Aster	<i>Baccharis malibuensis</i>	10	2	0	0
Aster	<i>Baccharis pilularis</i>	8	59	1	6
Aster	<i>Baccharis plummerae</i> subsp. <i>plummerae</i>	7	5	0	0
Aster	<i>Baccharis salicifolia</i>	17	73	0	13
Aster	<i>Baccharis sergiloides</i>	1	0	0	0
Aster	<i>Bellis perennis</i>	0	0	0	0
Aster	<i>Bidens frondosa</i>	2	1	0	0
Aster	<i>Bidens laevis</i>	1	0	0	0
Aster	<i>Bidens pilosa</i> var. <i>pilosa</i>	3	1	0	0
Aster	<i>Brickellia californica</i>	14	42	0	7
Aster	<i>Brickellia californica</i> X <i>B. nevinii</i>	0	3	0	0
Aster	<i>Brickellia nevinii</i>	7	6	0	0
Aster	<i>Carduus pycnocephalus</i>	0	19	1	5
Aster	<i>Centaurea melitensis</i>	13	92	0	9
Aster	<i>Centaurea solstitialis</i>	2	6	0	1
Aster	<i>Centromadia pungens</i> subsp. <i>laevis</i>	0	0	0	0
Aster	<i>Centromadia pungens</i> subsp. <i>pungens</i>	0	0	0	0
Aster	<i>Chaenactis artemisiifolia</i>	8	7	0	2
Aster	<i>Chaenactis glabriuscula</i>	0	2	0	4
Aster	<i>Chaenactis glabriuscula</i> var. <i>glabriuscula</i>	4	3	0	0
Aster	<i>Chaenactis glabriuscula</i> var. <i>lanosa</i>	1	0	0	0
Aster	<i>Chamomilla suaveolens</i>	5	13	0	2
Aster	<i>Chrysanthemum coronarium</i>	4	1	0	0
Aster	<i>Chrysothamnus nauseosus</i> subsp. <i>mohavensis</i>	1	6	1	2
Aster	<i>Cichorium intybus</i>	0	0	0	0
Aster	<i>Cirsium occidentale</i>	1	10	0	0
Aster	<i>Cirsium occidentale</i> var. <i>californicum</i>	17	18	1	3
Aster	<i>Cirsium occidentale</i> var. <i>occidentale</i>	5	4	0	2
Aster	<i>Cirsium vulgare</i>	2	35	0	3
Aster	<i>Cnicus benedictus</i>	1	1	0	0
Aster	<i>Conyza bonariensis</i>	2	11	0	1
Aster	<i>Conyza canadensis</i>	5	41	0	8
Aster	<i>Conyza coulteri</i>	1	1	0	0
Aster	<i>Coreopsis bigelovii</i>	3	2	0	1
Aster	<i>Coreopsis calliopsidea</i>	1	0	0	0

Table 1. Page 3

FAMILY <sup>1</sup>	Species <sup>2</sup>	Sta Monica Mtns		Simi Hills	
		V <sup>3</sup>	R	V <sup>3</sup>	R
Aster	<i>Coreopsis gigantea</i>	8	5	0	0
Aster	<i>Cotula australis</i>	2	1	0	0
Aster	<i>Cotula coronopifolia</i>	7	5	0	2
Aster	<i>Crepis capillaris</i>	1	0	0	0
Aster	<i>Cynara cardunculus</i>	0	6	0	0
Aster	<i>Cynara scolymus</i>	0	1	0	0
Aster	<i>Deinandra fasciculata</i>	11	71	0	11
Aster	<i>Deinandra minthornii</i>	0	1	1	4
Aster	<i>Deinandra ramosissima</i>	0	0	0	0
Aster	<i>Dimorphotheca sinuata</i>	0	0	0	0
Aster	<i>Eclipta prostrata</i>	1	1	0	0
Aster	<i>Encelia californica</i>	7	67	0	13
Aster	<i>Encelia farinosa</i>	0	0	0	0
Aster	<i>Erechtites minima</i>	0	0	0	0
Aster	<i>Ericameria arborescens</i>	0	0	0	0
Aster	<i>Ericameria ericoides</i>	6	5	0	0
Aster	<i>Ericameria linearifolia</i>	2	8	0	3
Aster	<i>Ericameria palmeri</i> var. <i>pachylepis</i>	2	12	2	5
Aster	<i>Ericameria parishii</i> var. <i>parishii</i>	3	0	0	0
Aster	<i>Ericameria pinifolia</i>	1	3	0	0
Aster	<i>Erigeron foliosus</i> var. <i>foliosus</i>	13	21	1	3
Aster	<i>Eriophyllum confertiflorum</i> var. <i>confertiflorum</i>	24	73	0	10
Aster	<i>Eriophyllum multicaule</i>	0	1	0	0
Aster	<i>Euthamia occidentalis</i>	7	5	0	0
Aster	<i>Filago californica</i>	11	16	0	8
Aster	<i>Filago gallica</i>	1	3	1	0
Aster	<i>Galinsoga parviflora</i> var. <i>parviflora</i>	0	0	0	0
Aster	<i>Gnaphalium bicolor</i>	13	29	0	4
Aster	<i>Gnaphalium californicum</i>	14	69	0	6
Aster	<i>Gnaphalium canescens</i>	0	2	0	0
Aster	<i>Gnaphalium canescens</i> subsp. <i>beneolens</i>	1	2	0	0
Aster	<i>Gnaphalium canescens</i> subsp. <i>microcephalum</i>	9	19	0	2
Aster	<i>Gnaphalium leucocephalum</i>	1	0	0	0
Aster	<i>Gnaphalium luteo-album</i>	2	35	0	4
Aster	<i>Gnaphalium palustre</i>	3	7	1	0
Aster	<i>Gnaphalium ramosissima</i>	0	0	0	0
Aster	<i>Gnaphalium stramineum</i>	1	3	0	0
Aster	<i>Grindelia camporum</i>	0	2	0	0
Aster	<i>Grindelia camporum</i> var. <i>bracteosum</i>	5	18	0	4
Aster	<i>Grindelia camporum</i> var. <i>camporum</i>	0	0	0	0
Aster	<i>Gutierrezia californica</i>	0	1	0	2
Aster	<i>Gutierrezia sarothrae</i>	1	0	0	0
Aster	<i>Hazardia squarrosa</i> var. <i>grindeloides</i>	7	72	0	8
Aster	<i>Hedypnois cretica</i>	0	5	0	0
Aster	<i>Helenium puberulum</i>	1	0	0	0
Aster	<i>Helianthus annuus</i>	1	28	0	3
Aster	<i>Helianthus californicus</i>	1	0	0	0
Aster	<i>Helianthus gracilentus</i>	6	15	0	3
Aster	<i>Heliomeris longifolia</i>	0	1	0	0

Table 1. Page 4

FAMILY <sup>1</sup>	Species <sup>2</sup>	Sta Monica Mtns		Simi Hills	
		V <sup>3</sup>	R	V <sup>3</sup>	R
Aster	<i>Hemizonia congesta</i> subsp. <i>luzulifolia</i>	0	5	0	0
Aster	<i>Heterotheca grandiflora</i>	6	65	0	11
Aster	<i>Heterotheca sessiliflora</i>	0	0	0	3
Aster	<i>Heterotheca sessiliflora</i> subsp. <i>fastigiata</i>	1	0	0	0
Aster	<i>Heterotheca sessiliflora</i> subsp. <i>sessiliflora</i>	3	1	0	0
Aster	<i>Heterotheca villosa</i>	0	1	0	0
Aster	<i>Hieracium argutum</i>	0	0	0	0
Aster	<i>Hypochaeris glabra</i>	4	14	0	4
Aster	<i>Hypochaeris radicata</i>	1	0	0	0
Aster	<i>Isocoma menziesii</i>	0	26	0	5
Aster	<i>Isocoma menziesii</i> var. <i>menziesii</i>	0	0	0	1
Aster	<i>Isocoma menziesii</i> var. <i>sedoides</i>	3	7	0	0
Aster	<i>Isocoma menziesii</i> var. <i>vernonioides</i>	8	14	1	1
Aster	<i>Iva axillaris</i> subsp. <i>robustior</i>	0	1	0	0
Aster	<i>Jaumea carnosa</i>	4	2	0	0
Aster	<i>Lactuca serriola</i>	2	48	1	4
Aster	<i>Lactuca virosa</i>	0	0	0	0
Aster	<i>Lagophylla ramosissima</i> subsp. <i>ramosissima</i>	2	0	0	0
Aster	<i>Lasthenia californica</i>	4	8	0	6
Aster	<i>Lasthenia coronaria</i>	1	0	0	2
Aster	<i>Lasthenia glabrata</i> subsp. <i>coulteri</i>	0	0	0	0
Aster	<i>Layia hieracioides</i>	1	0	0	0
Aster	<i>Layia platyglossa</i>	3	1	0	1
Aster	<i>Lepidospartum squamatum</i>	7	1	0	0
Aster	<i>Lessingia filaginifolia</i> var. <i>filaginifolia</i>	9	77	1	12
Aster	<i>Madia elegans</i>	3	4	0	0
Aster	<i>Madia elegans</i> subsp. <i>densiflora</i>	0	0	0	0
Aster	<i>Madia elegans</i> subsp. <i>elegans</i>	0	0	0	0
Aster	<i>Madia exigua</i>	2	0	0	0
Aster	<i>Madia gracilis</i>	14	2	0	0
Aster	<i>Madia sativa</i>	0	1	0	0
Aster	<i>Malacothrix clevelandii</i>	4	0	0	0
Aster	<i>Malacothrix coulteri</i>	0	2	0	0
Aster	<i>Malacothrix saxatilis</i> var. <i>tenuifolia</i>	9	56	0	6
Aster	<i>Micropus californicus</i> var. <i>californicus</i>	6	4	0	1
Aster	<i>Microseris douglasii</i> subsp. <i>douglasii</i>	2	0	0	0
Aster	<i>Microseris douglasii</i> subsp. <i>platycarpa</i>	0	0	0	0
Aster	<i>Microseris douglasii</i> subsp. <i>tenella</i>	2	0	0	0
Aster	<i>Microseris elegans</i>	1	0	0	0
Aster	<i>Monolopia lanceolata</i>	4	6	1	2
Aster	<i>Osteospermum fruticosum</i>	1	0	0	0
Aster	<i>Pentachaeta lyonii</i>	9	5	0	1
Aster	<i>Perityle emoryi</i>	12	0	0	0
Aster	<i>Picris echioptera</i>	3	9	0	0
Aster	<i>Pluchea odorata</i>	0	2	0	1
Aster	<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i>	0	0	0	1
Aster	<i>Psilocarphus tenellus</i> var. <i>tenellus</i>	3	1	0	3
Aster	<i>Rafinesquia californica</i>	6	30	0	4
Aster	<i>Senecio aphanactis</i>	0	0	0	0

Table 1. Page 5

FAMILY <sup>1</sup>	Species <sup>2</sup>	Sta Monica Mtns		Simi Hills	
		V <sup>3</sup>	R	V <sup>3</sup>	R
Aster	<i>Senecio breweri</i>	1	1	0	0
Aster	<i>Senecio flaccidus</i> var. <i>douglasii</i>	10	15	0	3
Aster	<i>Senecio mikanioides</i>	1	2	0	0
Aster	<i>Senecio vulgaris</i>	3	28	0	3
Aster	<i>Silybum marianum</i>	0	30	0	11
Aster	<i>Solidago californica</i>	4	10	0	2
Aster	<i>Soliva sessilis</i>	1	0	0	0
Aster	<i>Sonchus asper</i> subsp. <i>asper</i>	2	26	0	5
Aster	<i>Sonchus oleraceus</i>	9	42	0	8
Aster	<i>Stebbinsoseris heterocarpa</i>	6	5	0	1
Aster	<i>Stephanomeria cichoriacea</i>	4	1	0	0
Aster	<i>Stephanomeria diegensis</i>	6	2	0	0
Aster	<i>Stephanomeria exigua</i> subsp. <i>coronaria</i>	3	15	0	2
Aster	<i>Stephanomeria virgata</i> subsp. <i>virgata</i>	0	57	1	6
Aster	<i>Stylocline gnaphaloides</i>	1	5	0	2
Aster	<i>Tanacetum parthenium</i>	1	0	0	0
Aster	<i>Taraxacum officinale</i>	1	11	0	0
Aster	<i>Tetradymia comosa</i>	0	0	1	2
Aster	<i>Tragopogon porrifolius</i>	0	0	0	0
Aster	<i>Uropappus lindleyi</i>	7	17	0	4
Aster	<i>Venegasia carpescioides</i>	17	43	0	3
Aster	<i>Verbesina encelioides</i> subsp. <i>exauriculata</i>	0	0	0	0
Aster	<i>Xanthium spinosum</i>	2	25	0	3
Aster	<i>Xanthium strumarium</i>	5	27	0	3
Bat	<i>Batis maritima</i>	2	0	0	0
Berberid	<i>Berberis pinnata</i> subsp. <i>pinnata</i>	2	0	0	0
Betul	<i>Alnus rhombifolia</i>	4	6	0	0
Boragin	<i>Amsinckia douglasiana</i>	0	6	0	2
Boragin	<i>Amsinckia menziesii</i>	1	7	0	5
Boragin	<i>Amsinckia menziesii</i> var. <i>intermedia</i>	6	58	0	8
Boragin	<i>Amsinckia menziesii</i> var. <i>menziesii</i>	5	0	0	0
Boragin	<i>Cryptantha clevelandii</i>	1	3	1	1
Boragin	<i>Cryptantha intermedia</i>	17	26	0	5
Boragin	<i>Cryptantha micromeres</i>	7	9	0	0
Boragin	<i>Cryptantha microstachys</i>	7	11	0	0
Boragin	<i>Cryptantha muricata</i>	19	11	1	0
Boragin	<i>Heliotropium curassavicum</i>	9	18	0	2
Boragin	<i>Pectocarya linearis</i> subsp. <i>ferocula</i>	2	5	0	4
Boragin	<i>Pectocarya penicillata</i>	1	0	0	0
Boragin	<i>Plagiobothrys acanthocarpus</i>	0	0	0	0
Boragin	<i>Plagiobothrys canescens</i>	2	1	0	1
Boragin	<i>Plagiobothrys collinus</i> var. <i>californicus</i>	0	0	0	1
Boragin	<i>Plagiobothrys collinus</i> var. <i>fulvescens</i>	0	0	0	0
Boragin	<i>Plagiobothrys nothofulvus</i>	3	2	0	1
Boragin	<i>Plagiobothrys tenellus</i>	1	0	0	0
Brassic	<i>Arabis glabra</i> var. <i>glabra</i>	3	2	0	0
Brassic	<i>Arabis sparsiflora</i> var. <i>californica</i>	1	0	0	1
Brassic	<i>Athyisanus pusillus</i>	2	1	0	0
Brassic	<i>Barbarea orthoceras</i>	7	7	0	0

Table 1. Page 6

FAMILY <sup>1</sup>	Species <sup>2</sup>	Sta Monica Mtns		Simi Hills	
		V <sup>3</sup>	R	V <sup>3</sup>	R
Brassic	<i>Brassica nigra</i>	5	93	2	8
Brassic	<i>Brassica rapa</i>	2	9	0	2
Brassic	<i>Brassica tournefortii</i>	1	0	0	0
Brassic	<i>Cakile edentula</i>	1	0	0	0
Brassic	<i>Cakile maritima</i>	7	4	0	0
Brassic	<i>Camelina microcarpa</i>	0	0	1	1
Brassic	<i>Capsella bursa-pastoris</i>	5	27	0	7
Brassic	<i>Cardamine californica</i> var. <i>californica</i>	13	1	0	0
Brassic	<i>Cardamine oligosperma</i>	0	1	0	0
Brassic	<i>Cardaria draba</i>	0	1	0	0
Brassic	<i>Cardaria pubescens</i>	0	1	0	0
Brassic	<i>Caulanthus coulteri</i>	0	0	0	1
Brassic	<i>Caulanthus heterophyllus</i> var. <i>heterophyllus</i>	6	3	0	0
Brassic	<i>Coronopus didymus</i>	0	0	1	0
Brassic	<i>Descurainia pinnata</i>	1	1	0	0
Brassic	<i>Descurainia pinnata</i> subsp. <i>halictorum</i>	1	0	0	0
Brassic	<i>Descurainia pinnata</i> subsp. <i>menziesii</i>	1	2	0	1
Brassic	<i>Descurainia sophia</i>	1	1	1	1
Brassic	<i>Diplotaxis tenuifolia</i>	1	0	0	0
Brassic	<i>Dithyrea maritima</i>	0	0	0	0
Brassic	<i>Draba cuneifolia</i>	0	0	0	1
Brassic	<i>Erysimum capitatum</i> subsp. <i>capitatum</i>	2	4	0	0
Brassic	<i>Erysimum insulare</i> subsp. <i>suffrutescens</i>	2	1	0	0
Brassic	<i>Guillenia lasiophylla</i>	11	3	0	0
Brassic	<i>Hirschfeldia incana</i>	11	68	0	9
Brassic	<i>Lepidium lasiocarpum</i> var. <i>lasiocarpum</i>	0	0	0	0
Brassic	<i>Lepidium latifolium</i>	2	2	0	0
Brassic	<i>Lepidium latipes</i> var. <i>latipes</i>	0	0	1	1
Brassic	<i>Lepidium nitidum</i> var. <i>nitidum</i>	6	22	0	3
Brassic	<i>Lepidium oblongum</i>	0	1	0	0
Brassic	<i>Lepidium perfoliatum</i>	0	0	0	0
Brassic	<i>Lepidium virginicum</i> var. <i>pubescens</i>	2	0	0	1
Brassic	<i>Lobularia maritima</i>	3	9	0	3
Brassic	<i>Matthiola incana</i>	0	0	0	0
Brassic	<i>Raphanus raphinastrum</i>	0	0	0	0
Brassic	<i>Raphanus sativus</i>	2	21	0	2
Brassic	<i>Rorippa curvisiliqua</i>	1	1	0	0
Brassic	<i>Rorippa nasturtium-aquaticum</i>	6	24	0	7
Brassic	<i>Sinapis arvensis</i>	0	2	0	0
Brassic	<i>Sisymbrium altissimum</i>	0	5	0	3
Brassic	<i>Sisymbrium irio</i>	0	25	1	7
Brassic	<i>Sisymbrium officinale</i>	0	4	0	4
Brassic	<i>Sisymbrium orientale</i>	4	5	0	1
Brassic	<i>Stanleya pinnata</i> var. <i>pinnata</i>	3	6	0	0
Brassic	<i>Thysanocarpus curvipes</i>	3	15	0	3
Brassic	<i>Thysanocarpus laciniatus</i>	14	4	1	2
Brassic	<i>Tropidocarpum gracile</i>	2	8	0	0
Buddlej	<i>Buddleja davidii</i>	0	0	0	0
Buddlej	<i>Buddleja saligna</i>	0	0	0	0

Table 1. Page 7

FAMILY <sup>1</sup>	Species <sup>2</sup>	Sta Monica Mtns		Simi Hills	
		V <sup>3</sup>	R	V <sup>3</sup>	R
Cact	<i>Cylindropuntia prolifera</i>	0	2	0	0
Cact	<i>Opuntia basilaris</i> var. <i>basilaris</i>	0	0	0	0
Cact	<i>Opuntia ficus-indica</i>	0	7	0	0
Cact	<i>Opuntia littoralis</i>	0	22	0	4
Cact	<i>Opuntia oricola</i>	0	3	0	0
Cact	<i>Opuntia X occidentalis</i>	0	4	0	0
Callitrich	<i>Callitriches marginata</i>	0	0	0	0
Campanul	<i>Githopsis diffusa</i> subsp. <i>diffusa</i>	0	0	0	0
Campanul	<i>Lobelia dunnii</i> var. <i>serrata</i>	0	0	0	0
Campanul	<i>Nemacladus ramosissimus</i>	1	0	0	0
Campanul	<i>Triodanis perfoliata</i>	0	0	0	0
Cannab	<i>Cannabis sativa</i>	0	0	0	0
Cappar	<i>Isomeris arborea</i>	9	8	0	2
Caprifoli	<i>Lonicera hispidula</i> var. <i>vacillans</i>	1	0	0	2
Caprifoli	<i>Lonicera japonica</i> var. ' <i>Halliana</i> '	0	1	0	0
Caprifoli	<i>Lonicera subspicata</i> var. <i>denudata</i>	11	79	0	15
Caprifoli	<i>Sambucus mexicana</i>	18	99	0	13
Caprifoli	<i>Symporicarpos mollis</i>	10	27	0	8
Caryophyll	<i>Cardionema ramosissima</i>	1	0	0	0
Caryophyll	<i>Cerastium glomeratum</i>	1	11	0	0
Caryophyll	<i>Herniaria hirsuta</i> subsp. <i>cinerea</i>	1	2	0	0
Caryophyll	<i>Loeflingia squarrosa</i> var. <i>squarrosa</i>	0	0	1	0
Caryophyll	<i>Minuartia douglasii</i>	0	0	0	0
Caryophyll	<i>Petrorhagia dubia</i>	0	0	0	1
Caryophyll	<i>Polycarpon depressum</i>	2	0	0	0
Caryophyll	<i>Polycarpon tetraphyllum</i>	1	1	1	0
Caryophyll	<i>Silene antirrhina</i>	3	2	0	0
Caryophyll	<i>Silene gallica</i>	9	26	0	4
Caryophyll	<i>Silene laciniata</i> subsp. <i>major</i>	21	11	0	3
Caryophyll	<i>Silene multinervia</i>	3	0	0	0
Caryophyll	<i>Silene verecunda</i> subsp. <i>platyota</i>	0	0	1	0
Caryophyll	<i>Spergula arvensis</i> subsp. <i>arvensis</i>	2	1	0	0
Caryophyll	<i>Spergularia bocconii</i>	0	5	0	0
Caryophyll	<i>Spergularia macrotheca</i> var. <i>leucantha</i>	1	0	0	0
Caryophyll	<i>Spergularia macrotheca</i> var. <i>macrotheca</i>	4	0	0	0
Caryophyll	<i>Spergularia marina</i>	0	13	0	0
Caryophyll	<i>Spergularia villosa</i>	0	0	0	0
Caryophyll	<i>Stellaria media</i>	5	19	0	9
Caryophyll	<i>Stellaria nitens</i>	1	0	0	0
Chenopodi	<i>Atriplex californica</i>	4	2	0	0
Chenopodi	<i>Atriplex canescens</i> subsp. <i>canescens</i>	1	1	0	0
Chenopodi	<i>Atriplex canescens</i> subsp. <i>linearis</i>	1	0	0	0
Chenopodi	<i>Atriplex coulteri</i>	0	0	0	0
Chenopodi	<i>Atriplex lentiformis</i> subsp. <i>lentiformis</i>	4	17	0	0
Chenopodi	<i>Atriplex leucophylla</i>	5	0	0	0
Chenopodi	<i>Atriplex polycarpa</i>	0	0	0	0
Chenopodi	<i>Atriplex rosea</i>	0	6	0	0
Chenopodi	<i>Atriplex semibaccata</i>	4	19	0	5
Chenopodi	<i>Atriplex serenana</i> var. <i>serenana</i>	1	0	0	0

Table 1. Page 8

FAMILY <sup>1</sup>	Species <sup>2</sup>	Sta Monica Mtns		Simi Hills	
		V <sup>3</sup>	R	V <sup>3</sup>	R
Chenopodi	<i>Atriplex triangularis</i>	2	3	0	0
Chenopodi	<i>Atriplex watsonii</i>	0	0	0	0
Chenopodi	<i>Bassia hyssopifolia</i>	2	1	0	0
Chenopodi	<i>Beta vulgaris</i>	0	1	0	0
Chenopodi	<i>Chenopodium album</i>	0	35	0	3
Chenopodi	<i>Chenopodium ambrosioides</i>	6	11	0	1
Chenopodi	<i>Chenopodium berlandieri</i>	4	8	0	2
Chenopodi	<i>Chenopodium californicum</i>	7	36	1	9
Chenopodi	<i>Chenopodium macrospermum var. halophilum</i>	0	0	0	0
Chenopodi	<i>Chenopodium multifidum</i>	3	0	0	0
Chenopodi	<i>Chenopodium murale</i>	2	10	0	0
Chenopodi	<i>Chenopodium pumilio</i>	0	0	0	1
Chenopodi	<i>Chenopodium rubrum</i>	0	1	0	0
Chenopodi	<i>Chenopodium strictum var. glaucophyllum</i>	4	1	0	0
Chenopodi	<i>Kochia scoparia</i>	1	0	0	0
Chenopodi	<i>Salicornia bigelovii</i>	0	0	0	0
Chenopodi	<i>Salicornia europaea</i>	0	0	0	0
Chenopodi	<i>Salicornia maritima</i>	0	0	0	0
Chenopodi	<i>Salicornia subterminalis</i>	0	0	0	0
Chenopodi	<i>Salicornia virginica</i>	5	3	0	0
Chenopodi	<i>Salsola tragus</i>	6	53	1	8
Chenopodi	<i>Suaeda calceoliformis</i>	0	0	0	0
Chenopodi	<i>Suaeda esteroa</i>	0	0	0	0
Chenopodi	<i>Suaeda taxifolia</i>	3	0	0	0
Cist	<i>Cistus sp.</i>	0	1	0	0
Cist	<i>Helianthemum scoparium</i>	11	12	1	7
Convolvul	<i>Calystegia macrostegia</i>	0	32	0	7
Convolvul	<i>Calystegia macrostegia</i> subsp. <i>arida</i>	0	0	0	0
Convolvul	<i>Calystegia macrostegia</i> subsp. <i>cyclostegia</i>	21	34	0	2
Convolvul	<i>Calystegia macrostegia</i> subsp. <i>intermedia</i>	1	9	0	0
Convolvul	<i>Calystegia purpurata</i> subsp. <i>purpurata</i>	0	0	0	0
Convolvul	<i>Calystegia soldanella</i>	3	1	0	0
Convolvul	<i>Convolvulus arvensis</i>	0	26	0	4
Convolvul	<i>Convolvulus simulans</i>	1	0	0	0
Convolvul	<i>Cressa truxillensis</i>	0	1	0	0
Convolvul	<i>Cuscuta californica</i>	0	22	0	3
Convolvul	<i>Cuscuta californica</i> var. <i>breviflora</i>	0	0	0	0
Convolvul	<i>Cuscuta californica</i> var. <i>papillosa</i>	1	0	0	0
Convolvul	<i>Cuscuta pentagona</i>	0	0	0	0
Convolvul	<i>Cuscuta salina</i> var. <i>major</i>	3	1	0	0
Convolvul	<i>Cuscuta subinclusa</i>	3	22	0	1
Convolvul	<i>Dichondra occidentalis</i>	1	0	0	0
Convolvul	<i>Ipomoea purpurea</i>	0	0	0	0
Corn	<i>Cornus glabrata</i>	0	0	0	0
Crassul	<i>Crassula connata</i>	4	14	1	4
Crassul	<i>Dudleya abramsii</i> subsp. <i>parva</i>	0	2	0	0
Crassul	<i>Dudleya blochmaniae</i> subsp. <i>blochmaniae</i>	3	2	0	0
Crassul	<i>Dudleya caespitosa</i>	5	6	0	0
Crassul	<i>Dudleya cymosa</i>	0	4	0	0

Table 1. Page 9

FAMILY <sup>1</sup>	Species <sup>2</sup>	Sta Monica Mtns		Simi Hills	
		V <sup>3</sup>	R	V <sup>3</sup>	R
Crassul	<i>Dudleya cymosa</i> subsp. <i>marcescens</i>	0	6	0	0
Crassul	<i>Dudleya cymosa</i> subsp. <i>ovatifolia</i>	1	4	0	0
Crassul	<i>Dudleya lanceolata</i>	16	37	1	7
Crassul	<i>Dudleya palmeri</i>	4	0	0	0
Crassul	<i>Dudleya pulverulenta</i> subsp. <i>pulverulenta</i>	0	17	0	3
Crassul	<i>Dudleya verityi</i>	0	1	0	0
Crassul	<i>Sedum spathulifolium</i>	1	0	0	0
Cucurbit	<i>Cucurbita foetidissima</i>	0	25	0	8
Cucurbit	<i>Marah fabaceus</i>	0	0	0	2
Cucurbit	<i>Marah macrocarpus</i> var. <i>macrocarpus</i>	21	88	0	10
Datisc	<i>Datisca glomerata</i>	2	4	0	1
Elatin	<i>Elatine californica</i>	0	0	0	0
Eric	<i>Arbutus menziesii</i>	0	2	0	0
Eric	<i>Arctostaphylos glandulosa</i> subsp. <i>mollis</i>	10	5	1	6
Eric	<i>Arctostaphylos glandulosa</i> X <i>glaucia</i>	1	0	0	0
Eric	<i>Arctostaphylos glauca</i>	9	12	1	3
Eric	<i>Comarostaphylis diversifolia</i> subsp. <i>planifolia</i>	4	1	0	0
Euphorbi	<i>Chamaesyce albomarginata</i>	0	13	0	3
Euphorbi	<i>Chamaesyce maculata</i>	0	2	0	0
Euphorbi	<i>Chamaesyce melanadenia</i>	3	1	0	2
Euphorbi	<i>Chamaesyce polycarpa</i>	3	5	0	0
Euphorbi	<i>Chamaesyce serpens</i>	0	0	0	0
Euphorbi	<i>Chamaesyce serpyllifolia</i>	0	0	0	0
Euphorbi	<i>Croton californicus</i>	11	16	0	3
Euphorbi	<i>Eremocarpus setigerus</i>	8	46	0	5
Euphorbi	<i>Euphorbia crenulata</i>	0	0	0	0
Euphorbi	<i>Euphorbia peplus</i>	2	8	0	0
Euphorbi	<i>Euphorbia spathulata</i>	0	0	0	0
Euphorbi	<i>Euphorbia terracina</i>	1	3	0	0
Euphorbi	<i>Ricinus communis</i>	2	30	0	0
Euphorbi	<i>Stillingia linearifolia</i>	0	0	0	3
Fab	<i>Caesalpinia gillesii</i>	0	0	0	0
Fab	<i>Ceratonia siliqua</i>	0	1	0	0
Fab	<i>Cercis occidentalis</i>	0	1	0	0
Fab	<i>Amorpha californica</i> var. <i>californica</i>	5	12	0	0
Fab	<i>Astragalus brauntonii</i>	1	0	0	1
Fab	<i>Astragalus didymocarpus</i> var. <i>didymocarpus</i>	0	2	1	1
Fab	<i>Astragalus gambelianus</i>	1	1	0	0
Fab	<i>Astragalus pycnostachyus</i> var. <i>lanosissimus</i>	0	0	0	0
Fab	<i>Astragalus tener</i> var. <i>titi</i>	0	0	0	0
Fab	<i>Astragalus trichopodus</i>	0	16	0	4
Fab	<i>Astragalus trichopodus</i> var. <i>lonchus</i>	7	2	0	0
Fab	<i>Astragalus trichopodus</i> var. <i>phoxus</i>	8	3	1	0
Fab	<i>Astragalus trichopodus</i> var. <i>trichopodus</i>	0	6	0	0
Fab	<i>Dipogon lignosus</i>	0	0	0	0
Fab	<i>Genista monspessulana</i>	0	1	0	0
Fab	<i>Glycyrrhiza lepidota</i>	0	0	0	0
Fab	<i>Hoita macrostachya</i>	3	9	0	0
Fab	<i>Lathyrus latifolius</i>	0	2	0	0

Table 1. Page 10

FAMILY <sup>1</sup>	Species <sup>2</sup>	Sta Monica Mtns		Simi Hills	
		V <sup>3</sup>	R	V <sup>3</sup>	R
Fab	<i>Lathyrus odoratus</i>	1	0	0	0
Fab	<i>Lathyrus vestitus</i> var. <i>vestitus</i>	22	28	0	3
Fab	<i>Lotus argophyllus</i> var. <i>argophyllus</i>	2	3	1	2
Fab	<i>Lotus corniculatus</i>	2	4	0	0
Fab	<i>Lotus grandiflorus</i> var. <i>grandiflorus</i>	8	4	0	0
Fab	<i>Lotus hamatus</i>	0	1	0	0
Fab	<i>Lotus micranthus</i>	0	0	0	0
Fab	<i>Lotus oblongifolius</i> var. <i>oblongifolius</i>	0	0	0	0
Fab	<i>Lotus purshianus</i> var. <i>purshianus</i>	1	6	0	2
Fab	<i>Lotus salsuginosus</i> var. <i>salsuginosus</i>	17	15	0	4
Fab	<i>Lotus scoparius</i> var. <i>scoparius</i>	20	100	0	11
Fab	<i>Lotus strigosus</i>	1	8	0	4
Fab	<i>Lotus wrangelianus</i>	0	3	0	0
Fab	<i>Lupinus bicolor</i>	10	38	0	10
Fab	<i>Lupinus chamissonis</i>	0	0	0	0
Fab	<i>Lupinus concinnus</i>	1	3	0	0
Fab	<i>Lupinus excubitus</i>	0	3	0	1
Fab	<i>Lupinus formosus</i> var. <i>formosus</i>	2	1	0	0
Fab	<i>Lupinus hirsutissimus</i>	5	9	1	2
Fab	<i>Lupinus latifolius</i>	2	0	0	0
Fab	<i>Lupinus latifolius</i> var. <i>latifolius</i>	0	0	0	0
Fab	<i>Lupinus latifolius</i> var. <i>parishi</i>	1	0	0	0
Fab	<i>Lupinus longifolius</i>	28	33	0	4
Fab	<i>Lupinus microcarpus</i> var. <i>microcarpus</i>	1	1	0	1
Fab	<i>Lupinus nanus</i>	0	0	0	0
Fab	<i>Lupinus sparsiflorus</i>	5	12	1	1
Fab	<i>Lupinus succulentus</i>	7	27	0	9
Fab	<i>Lupinus truncatus</i>	10	13	1	1
Fab	<i>Medicago lupulina</i>	0	1	0	0
Fab	<i>Medicago polymorpha</i>	8	42	1	11
Fab	<i>Medicago sativa</i>	1	3	0	0
Fab	<i>Melilotus alba</i>	5	19	0	1
Fab	<i>Melilotus indica</i>	8	43	1	10
Fab	<i>Melilotus officinalis</i>	0	1	0	0
Fab	<i>Pickeringia montana</i> subsp. <i>montana</i>	6	0	0	0
Fab	<i>Robinia pseudoacacia</i>	0	1	0	0
Fab	<i>Rupertia physodes</i>	2	0	0	0
Fab	<i>Spartium junceum</i>	2	12	0	0
Fab	<i>Trifolium albopurpureum</i> var. <i>albopurpureum</i>	1	0	0	0
Fab	<i>Trifolium ciliolatum</i>	6	4	0	0
Fab	<i>Trifolium depauperatum</i> var. <i>truncatum</i>	0	1	0	0
Fab	<i>Trifolium fucatum</i>	0	0	0	0
Fab	<i>Trifolium gracilentum</i> var. <i>gracilentum</i>	1	0	0	0
Fab	<i>Trifolium hirtum</i>	1	2	0	0
Fab	<i>Trifolium incarnatum</i>	0	0	0	0
Fab	<i>Trifolium microcephalum</i>	2	1	0	0
Fab	<i>Trifolium obtusiflorum</i>	2	3	0	0
Fab	<i>Trifolium pratense</i>	0	1	0	0
Fab	<i>Trifolium repens</i>	0	2	0	0

FAMILY <sup>1</sup>	Species <sup>2</sup>	Sta Monica Mtns		Simi Hills	
		V <sup>3</sup>	R	V <sup>3</sup>	R
Fab	<i>Trifolium variegatum</i>	0	1	0	0
Fab	<i>Trifolium willdenovii</i>	9	5	0	3
Fab	<i>Vicia americana</i> var. <i>americana</i>	3	14	0	1
Fab	<i>Vicia benghalensis</i>	3	0	0	0
Fab	<i>Vicia hassei</i>	1	0	0	0
Fab	<i>Vicia sativa</i>	0	1	0	1
Fab	<i>Vicia sativa</i> subsp. <i>nigra</i>	1	0	0	2
Fab	<i>Vicia sativa</i> subsp. <i>sativa</i>	1	0	0	0
Fab	<i>Vicia villosa</i>	0	5	0	1
Fab	<i>Vicia villosa</i> subsp. <i>varia</i>	1	8	0	1
Fab	<i>Vicia villosa</i> subsp. <i>villosa</i>	1	0	0	2
Fab	<i>Acacia longifolia</i>	0	1	0	0
Fab	<i>Acacia</i> sp.	0	1	0	0
Fag	<i>Quercus agrifolia</i> var. <i>agrifolia</i>	1	96	0	13
Fag	<i>Quercus berberidifolia</i>	28	70	0	9
Fag	<i>Quercus chrysolepis</i>	0	1	0	0
Fag	<i>Quercus douglasii</i>	0	0	0	0
Fag	<i>Quercus dumosa</i>	0	2	0	0
Fag	<i>Quercus lobata</i>	0	43	1	10
Fag	<i>Quercus wislizeni</i> var. <i>frutescens</i>	1	0	0	0
Frankeni	<i>Frankenia salina</i>	2	2	0	0
Garry	<i>Garrya veatchii</i>	7	2	0	2
Gentian	<i>Centaurium venustum</i>	2	3	3	3
Gerani	<i>Erodium botrys</i>	1	18	0	4
Gerani	<i>Erodium brachycarpum</i>	0	1	0	0
Gerani	<i>Erodium cicutarium</i>	7	79	0	10
Gerani	<i>Erodium macrophyllum</i>	1	0	0	0
Gerani	<i>Erodium moschatum</i>	7	24	0	4
Gerani	<i>Geranium carolinianum</i>	7	4	0	1
Gerani	<i>Geranium dissectum</i>	0	0	0	0
Gerani	<i>Geranium molle</i>	0	0	0	0
Gerani	<i>Geranium rotundifolium</i>	0	0	0	0
Grossulari	<i>Ribes aureum</i> var. <i>gracillimum</i>	5	7	0	0
Grossulari	<i>Ribes californicum</i> var. <i>hesperium</i>	8	4	0	0
Grossulari	<i>Ribes indecorum</i>	5	3	0	2
Grossulari	<i>Ribes indecorum</i> X <i>R.malvaceum</i>	1	0	0	0
Grossulari	<i>Ribes malvaceum</i>	17	12	1	8
Grossulari	<i>Ribes malvaceum</i> var. <i>malvaceum</i>	0	11	0	0
Grossulari	<i>Ribes malvaceum</i> var. <i>viridifolium</i>	7	13	0	0
Grossulari	<i>Ribes speciosum</i>	20	34	0	4
Hydrophyll	<i>Emmenanthe penduliflora</i> var. <i>penduliflora</i>	14	16	0	7
Hydrophyll	<i>Eriodictyon crassifolium</i>	0	8	1	9
Hydrophyll	<i>Eriodictyon crassifolium</i> var. <i>crassifolium</i>	0	0	0	0
Hydrophyll	<i>Eriodictyon crassifolium</i> var. <i>nigrescens</i>	2	0	2	0
Hydrophyll	<i>Eriodictyon trichocalyx</i> var. <i>trichocalyx</i>	0	1	0	0
Hydrophyll	<i>Eucrypta chrysanthemifolia</i>	0	0	0	1
Hydrophyll	<i>Eucrypta chrysanthemifolia</i> var. <i>chrysanthemifolia</i>	2	50	0	9
Hydrophyll	<i>Nama stenocarpum</i>	0	1	0	0
Hydrophyll	<i>Nemophila menziesii</i> var. <i>integrifolia</i>	1	5	0	5

FAMILY <sup>1</sup>	Species <sup>2</sup>	Sta Monica Mtns		Simi Hills	
		V <sup>3</sup>	R	V <sup>3</sup>	R
Hydrophyll	<i>Nemophila pedunculata</i>	0	1	0	0
Hydrophyll	<i>Phacelia brachyloba</i>	6	0	0	0
Hydrophyll	<i>Phacelia cicutaria</i> var. <i>hispida</i>	35	39	1	7
Hydrophyll	<i>Phacelia cicutaria</i> var. <i>hubbyi</i>	4	0	0	0
Hydrophyll	<i>Phacelia distans</i>	7	20	1	4
Hydrophyll	<i>Phacelia douglasii</i>	0	0	0	0
Hydrophyll	<i>Phacelia egena</i>	3	0	0	0
Hydrophyll	<i>Phacelia grandiflora</i>	14	8	0	1
Hydrophyll	<i>Phacelia imbricata</i> subsp. <i>imbricata</i>	1	3	0	1
Hydrophyll	<i>Phacelia longipes</i>	1	0	0	0
Hydrophyll	<i>Phacelia minor</i>	5	8	0	2
Hydrophyll	<i>Phacelia parryi</i>	14	11	0	3
Hydrophyll	<i>Phacelia ramosissima</i>	1	10	0	5
Hydrophyll	<i>Phacelia ramosissima</i> var. <i>austrolitoralis</i>	1	0	0	0
Hydrophyll	<i>Phacelia ramosissima</i> var. <i>latifolia</i>	5	10	0	1
Hydrophyll	<i>Phacelia tanacetifolia</i>	6	9	1	1
Hydrophyll	<i>Phacelia viscosa</i>	9	18	0	1
Hydrophyll	<i>Pholistoma auritum</i> var. <i>auritum</i>	0	28	1	6
Hydrophyll	<i>Pholistoma racemosum</i>	0	1	0	0
Hydrophyll	<i>Wigandia urens</i>	0	0	0	0
Hyperic	<i>Hypericum concinnum</i>	0	2	0	0
Jugland	<i>Juglans californica</i> var. <i>californica</i>	18	72	0	13
Lami	<i>Lamium amplexicaule</i>	1	9	0	0
Lami	<i>Lepechinia fragrans</i>	1	1	0	0
Lami	<i>Marrubium vulgare</i>	11	88	0	13
Lami	<i>Mentha arvensis</i>	3	0	0	0
Lami	<i>Mentha piperita</i>	0	0	0	0
Lami	<i>Mentha pulegium</i>	0	2	0	0
Lami	<i>Mentha spicata</i> var. <i>spicata</i>	0	2	0	0
Lami	<i>Monardella hypoleuca</i> subsp. <i>hypoleuca</i>	1	0	0	0
Lami	<i>Monardella lanceolata</i>	0	0	1	0
Lami	<i>Prunella vulgaris</i>	0	2	0	0
Lami	<i>Salvia apiana</i>	5	55	1	8
Lami	<i>Salvia columbariae</i>	9	28	1	6
Lami	<i>Salvia leucophylla</i>	14	71	0	14
Lami	<i>Salvia mellifera</i>	1	103	0	12
Lami	<i>Salvia mellifera</i> X <i>S. leucophylla</i>	1	0	0	0
Lami	<i>Salvia spathacea</i>	19	12	0	1
Lami	<i>Satureja douglasii</i>	1	0	0	0
Lami	<i>Scutellaria siphocampyloides</i>	0	1	0	0
Lami	<i>Scutellaria tuberosa</i>	8	2	1	2
Lami	<i>Stachys ajugoides</i> var. <i>rigida</i>	3	10	0	1
Lami	<i>Stachys albens</i>	13	14	1	2
Lami	<i>Stachys bullata</i>	23	12	0	0
Lami	<i>Trichostema lanatum</i>	23	35	0	9
Lami	<i>Trichostema lanceolatum</i>	6	24	1	3
Laur	<i>Umbellularia californica</i>	11	15	0	0
Lenno	<i>Pholisma arenarium</i>	0	0	0	0
Lin	<i>Hesperolinon micranthum</i>	3	3	0	0

FAMILY <sup>1</sup>	Species <sup>2</sup>	Sta Monica Mtns		Simi Hills	
		V <sup>3</sup>	R	V <sup>3</sup>	R
Loas	<i>Mentzelia micrantha</i>	11	3	0	0
Lythr	<i>Ammannia coccinea</i>	0	0	0	0
Lythr	<i>Lythrum californicum</i>	0	3	0	0
Lythr	<i>Lythrum hyssopifolia</i>	0	1	0	0
Lythr	<i>Rotala ramosior</i>	0	0	0	0
Malv	<i>Lavatera arborea</i>	0	0	0	0
Malv	<i>Lavatera assurgentiflora</i>	0	0	0	0
Malv	<i>Lavatera cretica</i>	1	2	0	0
Malv	<i>Malacothamnus fasciculatus</i>	10	71	0	10
Malv	<i>Malva nicaeensis</i>	1	6	0	0
Malv	<i>Malva parviflora</i>	2	37	1	9
Malv	<i>Malvella leprosa</i>	1	3	0	0
Malv	<i>Modiola caroliniana</i>	0	0	0	0
Malv	<i>Sidalcea malviflora</i> subsp. <i>malviflora</i>	0	2	0	0
Malv	<i>Sidalcea malviflora</i> subsp. <i>sparsifolia</i>	3	1	1	0
Myopor	<i>Myoporum laetum</i>	0	5	0	0
Myric	<i>Myrica californica</i>	0	2	0	0
Myrt	<i>Eucalyptus camaldulensis</i>	0	2	0	1
Myrt	<i>Eucalyptus globulus</i>	0	13	0	0
Nyctagin	<i>Abronia maritima</i>	4	3	0	0
Nyctagin	<i>Abronia umbellata</i> subsp. <i>umbellata</i>	10	0	0	0
Nyctagin	<i>Mirabilis californica</i>	14	32	0	8
Nymphae	<i>Nuphar luteum</i> subsp. <i>polysepalum</i>	0	0	0	0
Ole	<i>Fraxinus dipetala</i>	5	11	0	1
Ole	<i>Fraxinus uhdei</i>	0	0	0	0
Ole	<i>Fraxinus velutina</i>	3	3	0	0
Onagr	<i>Camissonia bistorta</i>	6	2	0	2
Onagr	<i>Camissonia boothii</i> subsp. <i>decorticans</i>	3	7	0	1
Onagr	<i>Camissonia californica</i>	21	14	0	4
Onagr	<i>Camissonia cheiranthifolia</i> subsp. <i>suffruticosa</i>	10	3	0	0
Onagr	<i>Camissonia hirtella</i>	2	4	0	0
Onagr	<i>Camissonia ignota</i>	0	0	0	0
Onagr	<i>Camissonia intermedia</i>	1	5	0	0
Onagr	<i>Camissonia lewisii</i>	1	0	0	0
Onagr	<i>Camissonia micrantha</i>	13	15	2	2
Onagr	<i>Camissonia strigulosa</i>	1	3	1	0
Onagr	<i>Clarkia bottae</i>	19	21	0	1
Onagr	<i>Clarkia cylindrica</i> subsp. <i>cylindrica</i>	4	8	1	1
Onagr	<i>Clarkia epilobioides</i>	8	4	0	3
Onagr	<i>Clarkia purpurea</i> subsp. <i>quadrivulnera</i>	11	20	1	4
Onagr	<i>Clarkia unguiculata</i>	11	27	1	9
Onagr	<i>Epilobium brachycarpum</i>	1	0	0	0
Onagr	<i>Epilobium canum</i>	1	12	0	5
Onagr	<i>Epilobium canum</i> subsp. <i>canum</i>	9	30	0	1
Onagr	<i>Epilobium ciliatum</i> subsp. <i>ciliatum</i>	1	9	1	3
Onagr	<i>Epilobium pygmaeum</i>	0	0	0	0
Onagr	<i>Gaura coccinea</i>	1	1	0	0
Onagr	<i>Gaura sinuata</i>	2	2	0	0
Onagr	<i>Ludwigia palustris</i>	0	1	0	0

Table 1. Page 14

FAMILY <sup>1</sup>	Species <sup>2</sup>	Sta Monica Mtns		Simi Hills	
		V <sup>3</sup>	R	V <sup>3</sup>	R
Onagr	<i>Ludwigia peploides</i> subsp. <i>peploides</i>	2	2	0	0
Onagr	<i>Oenothera biennis</i>	1	0	0	0
Onagr	<i>Oenothera californica</i> subsp. <i>californica</i>	0	0	0	0
Onagr	<i>Oenothera elata</i> subsp. <i>hirsutissima</i>	0	0	0	0
Onagraceae	<i>Clarkia amoena</i> subsp. <i>whitneyi</i>	1	0	1	0
Orobanch	<i>Orobanche bulbosa</i>	0	0	0	0
Orobanch	<i>Orobanche californica</i>	2	0	0	0
Orobanch	<i>Orobanche californica</i> subsp. <i>grandis</i>	0	0	0	0
Orobanch	<i>Orobanche fasciculata</i>	2	0	1	0
Orobanch	<i>Orobanche uniflora</i>	2	0	0	0
Orobanch	<i>Orobanche vallicola</i>	1	0	0	0
Oxalid	<i>Oxalis albicans</i> subsp. <i>californica</i>	10	1	0	0
Oxalid	<i>Oxalis corniculata</i>	0	0	0	0
Oxalid	<i>Oxalis pes-caprae</i>	1	2	0	0
Oxalid	<i>Oxalis rubra</i>	0	0	0	0
Paeoni	<i>Paeonia californica</i>	12	52	0	12
Papaver	<i>Argemone munita</i>	1	0	3	1
Papaver	<i>Dendromecon rigida</i>	14	6	0	0
Papaver	<i>Dicentra ochroleuca</i>	10	3	0	0
Papaver	<i>Eschscholzia caespitosa</i>	5	4	0	0
Papaver	<i>Eschscholzia californica</i>	6	49	0	9
Papaver	<i>Meconella denticulata</i>	2	1	0	0
Papaver	<i>Papaver californicum</i>	7	0	0	0
Papaver	<i>Platystemon californicus</i>	4	1	0	0
Papaver	<i>Romneya coulteri</i>	1	1	0	0
Papaver	<i>Romneya trichocalyx</i>	0	0	0	0
Papaver	<i>Stylomecon heterophylla</i>	1	7	0	3
Passiflor	<i>Passiflora</i> sp.	0	1	0	0
Plantagin	<i>Plantago coronopus</i>	0	1	0	0
Plantagin	<i>Plantago erecta</i>	11	12	1	5
Plantagin	<i>Plantago lanceolata</i>	1	10	0	4
Plantagin	<i>Plantago major</i>	4	14	0	0
Plantagin	<i>Plantago sempervirens</i>	0	1	0	0
Platan	<i>Platanus racemosa</i>	12	43	0	9
Plumbagin	<i>Limonium californicum</i>	1	2	0	0
Plumbagin	<i>Limonium perezii</i>	0	1	0	0
Polemoni	<i>Allophyllum divaricatum</i>	0	0	0	0
Polemoni	<i>Allophyllum glutinosum</i>	6	14	1	1
Polemoni	<i>Eriastrum densifolium</i> subsp. <i>elongatum</i>	0	0	0	0
Polemoni	<i>Eriastrum filifolium</i>	0	0	0	0
Polemoni	<i>Eriastrum sapphirinum</i>	8	2	2	3
Polemoni	<i>Gilia angelensis</i>	12	5	1	2
Polemoni	<i>Gilia australis</i>	0	0	0	0
Polemoni	<i>Gilia capitata</i> subsp. <i>abrotanifolia</i>	14	7	1	3
Polemoni	<i>Gilia clivorum</i>	0	1	0	0
Polemoni	<i>Gilia splendens</i>	0	0	0	0
Polemoni	<i>Leptodactylon californicum</i>	16	15	2	6
Polemoni	<i>Leptodactylon californicum</i> subsp. <i>californicum</i>	0	0	0	0
Polemoni	<i>Leptodactylon californicum</i> subsp. <i>glandulosum</i>	0	0	0	0

Table 1. Page 15

FAMILY <sup>1</sup>	Species <sup>2</sup>	Sta Monica Mtns		Simi Hills	
		V <sup>3</sup>	R	V <sup>3</sup>	R
Polemoni	<i>Linanthus dianthiflorus</i>	10	5	0	1
Polemoni	<i>Linanthus liniflorus</i>	3	1	1	2
Polemoni	<i>Linanthus parviflorus</i>	9	1	0	1
Polemoni	<i>Linanthus pygmaeus</i> subsp. <i>continentalis</i>	1	0	0	0
Polemoni	<i>Navarretia atractyloides</i>	0	0	0	0
Polemoni	<i>Navarretia hamata</i>	3	0	1	0
Polemoni	<i>Navarretia mellita</i>	1	0	0	0
Polemoni	<i>Navarretia pubescens</i>	0	0	0	0
Polemoni	<i>Phlox gracilis</i>	2	0	0	0
Polygal	<i>Polygala cornuta</i> var. <i>fishiae</i>	2	3	0	0
Polygon	<i>Chorizanthe parryi</i> var. <i>fernandina</i>	0	0	0	2
Polygon	<i>Chorizanthe parryi</i> var. <i>parryi</i>	0	0	0	0
Polygon	<i>Chorizanthe staticoides</i>	16	16	0	7
Polygon	<i>Chorizanthe wheeleri</i>	0	0	0	0
Polygon	<i>Emex spinosa</i>	0	0	0	0
Polygon	<i>Eriogonum angulosum</i>	0	0	0	0
Polygon	<i>Eriogonum cinereum</i>	13	38	0	4
Polygon	<i>Eriogonum cinereum</i> X <i>fasciculatum</i>	2	0	0	0
Polygon	<i>Eriogonum crocatum</i>	2	4	0	0
Polygon	<i>Eriogonum elongatum</i> var. <i>elongatum</i>	11	34	0	5
Polygon	<i>Eriogonum fasciculatum</i> var. <i>fasciculatum</i>	14	108	0	12
Polygon	<i>Eriogonum fasciculatum</i> var. <i>foliolosum</i>	4	2	0	0
Polygon	<i>Eriogonum gracile</i> var. <i>gracile</i>	2	3	0	2
Polygon	<i>Eriogonum parvifolium</i>	1	10	0	0
Polygon	<i>Eriogonum roseum</i>	0	1	0	1
Polygon	<i>Eriogonum wrightii</i> var. <i>membranaceum</i>	2	0	1	0
Polygon	<i>Lastariaea coriacea</i>	0	0	0	3
Polygon	<i>Mucronea californica</i>	0	0	0	0
Polygon	<i>Polygonum amphibium</i> var. <i>emersum</i>	3	1	0	0
Polygon	<i>Polygonum arenastrum</i>	1	20	0	2
Polygon	<i>Polygonum argyrocoleon</i>	3	1	0	0
Polygon	<i>Polygonum hydropiperoides</i>	0	0	0	0
Polygon	<i>Polygonum lapathifolium</i>	0	5	0	0
Polygon	<i>Polygonum patulum</i>	0	1	0	0
Polygon	<i>Polygonum punctatum</i>	1	1	0	0
Polygon	<i>Pterostegia drymariooides</i>	6	23	0	7
Polygon	<i>Rumex acetosella</i>	2	0	0	0
Polygon	<i>Rumex conglomeratus</i>	4	4	0	0
Polygon	<i>Rumex crispus</i>	8	49	0	9
Polygon	<i>Rumex kerneri</i>	1	0	0	0
Polygon	<i>Rumex maritimus</i>	1	2	0	0
Polygon	<i>Rumex salicifolius</i>	2	8	0	1
Polygon	<i>Rumex salicifolius</i> var. <i>crassus</i>	1	0	0	0
Polygon	<i>Rumex salicifolius</i> var. <i>salicifolius</i>	1	0	0	0
Polygon	<i>Rumex violascens</i>	0	1	0	0
Portulac	<i>Calandrinia breweri</i>	3	2	0	0
Portulac	<i>Calandrinia ciliata</i>	11	20	0	3
Portulac	<i>Calandrinia maritima</i>	0	0	0	0
Portulac	<i>Calytridium monandrum</i>	1	1	0	1

FAMILY <sup>1</sup>	Species <sup>2</sup>	Sta Monica Mtns		Simi Hills	
		V <sup>3</sup>	R	V <sup>3</sup>	R
Portulac	<i>Claytonia exigua</i> subsp. <i>exigua</i>	0	0	0	0
Portulac	<i>Claytonia perfoliata</i>	1	27	0	10
Portulac	<i>Claytonia perfoliata</i> subsp. <i>mexicana</i>	5	0	0	1
Portulac	<i>Claytonia perfoliata</i> subsp. <i>perfoliata</i>	0	8	0	1
Portulac	<i>Lewisia rediviva</i>	0	0	0	0
Portulac	<i>Portulaca oleracea</i>	1	1	0	0
Primul	<i>Anagallis arvensis</i>	7	34	0	9
Primul	<i>Dodecatheon clevelandii</i>	8	2	1	0
Primul	<i>Dodecatheon clevelandii</i> subsp. <i>clevelandii</i>	0	1	0	0
Primul	<i>Dodecatheon clevelandii</i> subsp. <i>sanctorum</i>	0	6	0	0
Primul	<i>Samolus parviflorus</i>	1	0	0	0
Ranuncul	<i>Clematis lasiantha</i>	9	4	1	0
Ranuncul	<i>Clematis ligusticifolia</i>	4	1	0	1
Ranuncul	<i>Delphinium cardinale</i>	6	14	0	4
Ranuncul	<i>Delphinium parryi</i>	0	8	0	4
Ranuncul	<i>Delphinium parryi</i> subsp. <i>blochmaniae</i>	0	1	0	0
Ranuncul	<i>Delphinium parryi</i> subsp. <i>maritimum</i>	0	0	0	0
Ranuncul	<i>Delphinium parryi</i> subsp. <i>parryi</i>	15	11	1	0
Ranuncul	<i>Delphinium patens</i> subsp. <i>hepaticoideum</i>	8	7	0	0
Ranuncul	<i>Ranunculus aquatilis</i>	0	2	0	0
Ranuncul	<i>Ranunculus californicus</i>	9	1	0	0
Ranuncul	<i>Ranunculus cymbalaria</i> var. <i>saximontanus</i>	1	0	0	0
Ranuncul	<i>Ranunculus hebecarpus</i>	3	2	0	0
Ranuncul	<i>Ranunculus repens</i>	1	1	0	0
Ranuncul	<i>Thalictrum fendleri</i> var. <i>polycarpum</i>	9	11	0	0
Resed	<i>Oligomeris linifolia</i>	0	0	0	0
Rhamn	<i>Ceanothus crassifolius</i>	6	16	2	3
Rhamn	<i>Ceanothus cuneatus</i> var. <i>cuneatus</i>	4	26	0	1
Rhamn	<i>Ceanothus leucodermis</i>	2	6	0	0
Rhamn	<i>Ceanothus megacarpus</i> var. <i>megacarpus</i>	25	47	0	7
Rhamn	<i>Ceanothus oliganthus</i>	6	4	3	2
Rhamn	<i>Ceanothus oliganthus</i> var. <i>oliganthus</i>	0	0	0	0
Rhamn	<i>Ceanothus oliganthus</i> var. <i>sorediatus</i>	0	0	0	1
Rhamn	<i>Ceanothus spinosus</i>	25	48	0	3
Rhamn	<i>Ceanothus tomentosus</i> var. <i>olivaceous</i>	0	0	0	0
Rhamn	<i>Rhamnus californica</i> subsp. <i>californica</i>	10	28	0	2
Rhamn	<i>Rhamnus crocea</i>	5	23	0	4
Rhamn	<i>Rhamnus ilicifolia</i>	23	69	3	10
Rhamn	<i>Rhamnus tomentella</i> subsp. <i>tomentella</i>	3	0	0	1
Ros	<i>Adenostoma fasciculatum</i>	18	81	1	10
Ros	<i>Adenostoma sparsifolium</i>	7	12	0	2
Ros	<i>Aphanes occidentalis</i>	0	1	0	0
Ros	<i>Cercocarpus betuloides</i>	0	23	0	4
Ros	<i>Cercocarpus betuloides</i> var. <i>betuloides</i>	18	28	1	3
Ros	<i>Cercocarpus betuloides</i> var. <i>blancheae</i>	1	1	0	0
Ros	<i>Chamaebatia australis</i>	1	1	0	0
Ros	<i>Heteromeles arbutifolia</i>	8	87	0	11
Ros	<i>Holodiscus discolor</i>	3	1	0	0
Ros	<i>Horkelia cuneata</i> subsp. <i>cuneata</i>	4	1	0	0

FAMILY <sup>1</sup>	Species <sup>2</sup>	Sta Monica Mtns		Simi Hills	
		V <sup>3</sup>	R	V <sup>3</sup>	R
Ros	<i>Potentilla anserina</i> subsp. <i>pacifica</i>	0	0	0	0
Ros	<i>Potentilla glandulosa</i> subsp. <i>glandulosa</i>	11	11	0	0
Ros	<i>Prunus caroliniana</i>	0	1	0	0
Ros	<i>Prunus ilicifolia</i> subsp. <i>ilicifolia</i>	10	30	1	1
Ros	<i>Pyracantha angustifolia</i>	0	0	0	0
Ros	<i>Rosa californica</i>	10	33	1	6
Ros	<i>Rubus discolor</i>	0	0	0	0
Ros	<i>Rubus ursinus</i>	9	35	0	4
Ros	<i>Sanguisorba minor</i> subsp. <i>muricata</i>	1	0	1	0
Rubi	<i>Galium andrewsii</i> subsp. <i>intermedium</i>	0	1	0	0
Rubi	<i>Galium angustifolium</i>	0	0	0	1
Rubi	<i>Galium angustifolium</i> subsp. <i>angustifolium</i>	18	53	0	7
Rubi	<i>Galium angustifolium</i> subsp. <i>foliosum</i>	0	0	0	0
Rubi	<i>Galium aparine</i>	7	38	0	6
Rubi	<i>Galium californicum</i> subsp. <i>flaccidum</i>	0	1	0	0
Rubi	<i>Galium cliftonsmithii</i>	0	0	0	0
Rubi	<i>Galium nuttallii</i> subsp. <i>nuttallii</i>	27	24	0	2
Rubi	<i>Galium parisiense</i>	1	0	0	0
Rubi	<i>Sherardia arvensis</i>	0	0	0	0
Rut	<i>Ruta chalapensis</i>	0	0	0	0
Salic	<i>Populus balsamifera</i> subsp. <i>trichocarpa</i>	5	1	0	0
Salic	<i>Populus fremontii</i> subsp. <i>fremontii</i>	0	12	0	3
Salic	<i>Populus 'Lombardy'</i>	0	1	0	0
Salic	<i>Salix exigua</i>	5	17	0	3
Salic	<i>Salix gooddingii</i>	0	4	0	2
Salic	<i>Salix laevigata</i>	17	13	0	6
Salic	<i>Salix lasiolepis</i>	3	49	0	9
Salic	<i>Salix lucida</i> subsp. <i>lasiandra</i>	0	4	1	0
Saurur	<i>Anemopsis californica</i>	2	9	2	0
Saxifrag	<i>Boykinia occidentalis</i>	0	1	0	0
Saxifrag	<i>Boykinia rotundifolia</i>	0	2	0	0
Saxifrag	<i>Lithophragma affine</i>	9	3	0	1
Saxifrag	<i>Lithophragma heterophyllum</i>	0	1	0	0
Saxifrag	<i>Saxifraga californica</i>	6	1	0	0
Scrophulari	<i>Antirrhinum coulterianum</i>	7	3	1	4
Scrophulari	<i>Antirrhinum kelloggii</i>	5	3	0	2
Scrophulari	<i>Antirrhinum multiflorum</i>	4	1	0	2
Scrophulari	<i>Antirrhinum nuttallianum</i> subsp. <i>subsessile</i>	4	3	0	1
Scrophulari	<i>Castilleja affinis</i> subsp. <i>affinis</i>	6	39	0	6
Scrophulari	<i>Castilleja applegatei</i> subsp. <i>martinii</i>	5	1	0	0
Scrophulari	<i>Castilleja densiflora</i> subsp. <i>densiflora</i>	0	0	0	0
Scrophulari	<i>Castilleja exserta</i> subsp. <i>exserta</i>	14	26	1	7
Scrophulari	<i>Castilleja foliolosa</i>	6	5	1	2
Scrophulari	<i>Castilleja minor</i> subsp. <i>spiralis</i>	1	0	0	0
Scrophulari	<i>Collinsia heterophylla</i>	12	7	1	6
Scrophulari	<i>Collinsia parryi</i>	1	1	0	0
Scrophulari	<i>Cordylanthus maritimus</i> subsp. <i>maritimus</i>	0	0	0	0
Scrophulari	<i>Cordylanthus mollis</i> subsp. <i>hispidus</i>	0	6	0	0
Scrophulari	<i>Cordylanthus rigidus</i> subsp. <i>setigerus</i>	5	10	0	4

FAMILY <sup>1</sup>	Species <sup>2</sup>	Sta Monica Mtns		Simi Hills	
		V <sup>3</sup>	R	V <sup>3</sup>	R
Scrophulari	<i>Galvezia speciosa</i>	0	2	0	0
Scrophulari	<i>Keckiella cordifolia</i>	14	60	0	10
Scrophulari	<i>Kickxia elatine</i>	1	0	0	0
Scrophulari	<i>Linaria canadensis</i>	1	0	0	0
Scrophulari	<i>Linaria pinifolia</i>	0	0	0	0
Scrophulari	<i>Mimulus androsaceus</i>	0	0	0	0
Scrophulari	<i>Mimulus aurantiacus</i>	27	71	5	11
Scrophulari	<i>Mimulus bigelovii</i>	0	1	0	0
Scrophulari	<i>Mimulus brevipes</i>	13	9	1	1
Scrophulari	<i>Mimulus cardinalis</i>	5	13	1	3
Scrophulari	<i>Mimulus floribundus</i>	0	1	1	0
Scrophulari	<i>Mimulus guttatus</i>	8	19	0	2
Scrophulari	<i>Mimulus pilosus</i>	4	1	0	0
Scrophulari	<i>Pedicularis densiflora</i>	7	3	0	0
Scrophulari	<i>Penstemon centranthifolius</i>	2	13	2	3
Scrophulari	<i>Penstemon heterophyllus</i> var. <i>australis</i>	12	5	0	1
Scrophulari	<i>Penstemon spectabilis</i> var. <i>subviscosis</i>	11	9	1	2
Scrophulari	<i>Penstemon X parishii</i>	0	1	1	0
Scrophulari	<i>Scrophularia californica</i>	0	8	0	0
Scrophulari	<i>Scrophularia californica</i> subsp. <i>californica</i>	19	18	0	0
Scrophulari	<i>Scrophularia californica</i> subsp. <i>floribunda</i>	0	1	0	0
Scrophulari	<i>Verbascum thapsus</i>	0	1	0	1
Scrophulari	<i>Verbascum virgatum</i>	0	0	0	0
Scrophulari	<i>Veronica anagallis-aquatica</i>	2	7	1	1
Scrophulari	<i>Veronica persica</i>	0	2	0	0
Simaroub	<i>Ailanthus altissima</i>	1	0	0	1
Solan	<i>Datura stramonium</i>	0	6	0	0
Solan	<i>Datura wrightii</i>	4	18	1	5
Solan	<i>Lycium californicum</i>	1	0	0	0
Solan	<i>Lycopersicon esculentum</i>	2	1	0	0
Solan	<i>Nicotiana clevelandii</i>	0	0	0	0
Solan	<i>Nicotiana glauca</i>	14	69	2	13
Solan	<i>Nicotiana quadrivalvis</i>	5	2	1	0
Solan	<i>Petunia parviflora</i>	2	0	0	0
Solan	<i>Salpichroa origanifolia</i>	0	0	0	0
Solan	<i>Solanum americanum</i>	4	6	0	0
Solan	<i>Solanum aviculare</i>	0	1	0	0
Solan	<i>Solanum douglasii</i>	17	41	0	8
Solan	<i>Solanum elaeagnifolium</i>	1	0	0	0
Solan	<i>Solanum rostratum</i>	0	0	0	0
Solan	<i>Solanum sarachoides</i>	1	2	0	0
Solan	<i>Solanum umbelliferum</i>	0	2	0	0
Solan	<i>Solanum xanti</i>	24	67	0	7
Sterculi	<i>Fremontodendron californicum</i>	0	1	0	0
Tamaric	<i>Tamarix gallica</i>	1	0	0	0
Tamaric	<i>Tamarix parviflora</i>	0	1	0	0
Tamaric	<i>Tamarix ramosissima</i>	0	4	0	0
Tropaeol	<i>Tropaeolum majus</i>	1	3	0	0
Urtic	<i>Hesperocnide tenella</i>	8	9	0	1

FAMILY <sup>1</sup>	Species <sup>2</sup>	Sta Monica Mtns		Simi Hills	
		V <sup>3</sup>	R	V <sup>3</sup>	R
Urtic	<i>Parietaria hespera</i>	1	1	0	2
Urtic	<i>Parietaria hespera var. californica</i>	1	0	0	0
Urtic	<i>Parietaria hespera var. hespera</i>	2	0	0	0
Urtic	<i>Soleirolia soleirolii</i>	1	0	0	0
Urtic	<i>Urtica dioica subsp. holosericea</i>	5	27	0	8
Urtic	<i>Urtica urens</i>	1	19	0	5
Valerian	<i>Centranthus ruber</i>	2	0	0	0
Valerian	<i>Plectritis ciliosa subsp. insignis</i>	2	1	0	0
Verben	<i>Lantana sp.</i>	1	1	0	0
Verben	<i>Phyla lanceolata</i>	1	0	0	0
Verben	<i>Phyla nodiflora var. incisa</i>	0	0	0	0
Verben	<i>Phyla nodiflora var. nodiflora</i>	0	0	0	0
Verben	<i>Verbena bracteata</i>	0	1	0	0
Verben	<i>Verbena lasiostachys</i>	2	26	0	9
Verben	<i>Verbena lasiostachys var. lasiostachys</i>	9	8	0	1
Verben	<i>Verbena lasiostachys var. scabrida</i>	1	3	0	0
Verben	<i>Verbena menthifolia</i>	0	1	0	0
Verben	<i>Verbena scabra</i>	0	1	0	0
Verben	<i>Verbena tenuisecta</i>	0	0	2	0
Viol	<i>Viola pedunculata</i>	6	5	0	5
Visc	<i>Phoradendron macrophyllum</i>	4	6	0	3
Visc	<i>Phoradendron villosum</i>	0	17	0	4
Vit	<i>Vitis girdiana</i>	1	1	0	0
Zygophyll	<i>Tribulus terrestris</i>	1	8	0	0
 Monocots					
Agav	<i>Hesperoyucca whipplei</i>	8	96	0	11
Agav	<i>Nolina cismontana</i>	0	0	0	3
Alismat	<i>Alisma plantago-aquatica</i>	2	0	0	0
Alismat	<i>Echinodorus berteroii</i>	2	0	0	0
Alli	<i>Allium fimbriatum var. fimbriatum</i>	0	1	0	0
Alli	<i>Allium haematochiton</i>	7	8	0	0
Alli	<i>Allium peninsulare var. peninsulare</i>	6	3	1	0
Alli	<i>Bloomeria crocea</i>	10	40	1	8
Alli	<i>Brodiaea jolonensis</i>	2	0	0	0
Alli	<i>Brodiaea terrestris subsp. kernensis</i>	0	0	2	0
Alli	<i>Dichelostemma capitatum subsp. capitatum</i>	14	63	0	9
Alli	<i>Muilla maritima</i>	0	0	1	0
Amaryllid	<i>Allium lacunosum</i>	0	0	0	0
Arec	<i>Phoenix canariensis</i>	0	3	0	0
Arec	<i>Washingtonia filifera</i>	0	4	0	0
Arec	<i>Washingtonia robusta</i>	0	1	0	0
Asp	<i>Asphodelus fistulosus</i>	1	0	1	0
Calchort	<i>Calochortus albus</i>	10	4	0	0
Calchort	<i>Calochortus catalinae</i>	18	36	1	9
Calchort	<i>Calochortus clavatus</i>	8	0	0	4
Calchort	<i>Calochortus clavatus subsp. pallidus</i>	1	7	0	3
Calchort	<i>Calochortus plummerae</i>	6	5	1	6
Calchort	<i>Calochortus splendens</i>	3	5	0	0

FAMILY <sup>1</sup>	Species <sup>2</sup>	Sta Monica Mtns		Simi Hills	
		V <sup>3</sup>	R	V <sup>3</sup>	R
Calchort	<i>Calochortus venustus</i>	1	13	0	4
Calchort	<i>Calochortus weedii</i> var. <i>vestus</i>	0	1	0	0
Cyper	<i>Carex barbae</i>	0	0	0	0
Cyper	<i>Carex globosa</i>	2	0	0	0
Cyper	<i>Carex multicostata</i>	0	2	0	0
Cyper	<i>Carex praeclaris</i>	2	6	0	0
Cyper	<i>Carex senta</i>	3	1	0	1
Cyper	<i>Carex spissa</i>	2	3	0	0
Cyper	<i>Carex triquetra</i>	3	1	1	0
Cyper	<i>Cyperus acuminatus</i>	0	0	0	0
Cyper	<i>Cyperus eragrostis</i>	3	13	0	0
Cyper	<i>Cyperus erythrorhizos</i>	1	1	0	0
Cyper	<i>Cyperus esculentus</i>	1	1	0	0
Cyper	<i>Cyperus involucratus</i>	0	3	0	0
Cyper	<i>Cyperus niger</i>	0	2	0	0
Cyper	<i>Cyperus odoratus</i>	2	2	0	0
Cyper	<i>Cyperus rotundus</i>	0	0	0	0
Cyper	<i>Eleocharis macrostachya</i>	5	3	0	3
Cyper	<i>Eleocharis montevidensis</i>	4	2	0	0
Cyper	<i>Eleocharis parishii</i>	0	0	0	0
Cyper	<i>Eleocharis radicans</i>	1	0	0	0
Cyper	<i>Eleocharis rostellata</i>	0	0	0	0
Cyper	<i>Scirpus acutus</i> var. <i>occidentalis</i>	2	3	0	0
Cyper	<i>Scirpus americanus</i>	5	7	0	1
Cyper	<i>Scirpus californicus</i>	3	3	0	0
Cyper	<i>Scirpus cernuus</i>	0	0	0	0
Cyper	<i>Scirpus maritimus</i>	3	2	0	0
Cyper	<i>Scirpus microcarpus</i>	1	2	0	0
Cyper	<i>Scirpus pungens</i>	0	0	0	0
Cyper	<i>Scirpus robustus</i>	1	4	0	0
Hyacinth	<i>Chlorogalum parviflorum</i>	0	1	0	0
Hyacinth	<i>Chlorogalum pomeridianum</i> var. <i>pomeridianum</i>	1	46	0	8
Irid	<i>Iris pseudacorus</i>	0	0	0	0
Irid	<i>Sisyrinchium bellum</i>	10	36	0	3
Junc	<i>Juncus acutus</i> subsp. <i>leopoldii</i>	2	0	0	0
Junc	<i>Juncus balticus</i>	1	2	0	0
Junc	<i>Juncus bufonius</i>	3	5	0	3
Junc	<i>Juncus bufonius</i> var. <i>bufonius</i>	1	1	0	1
Junc	<i>Juncus bufonius</i> var. <i>congestus</i>	2	0	0	0
Junc	<i>Juncus effusus</i> var. <i>pacificus</i>	1	0	0	0
Junc	<i>Juncus macrophyllus</i>	7	5	0	1
Junc	<i>Juncus mexicanus</i>	1	8	0	3
Junc	<i>Juncus patens</i>	1	0	0	0
Junc	<i>Juncus phaeocephalus</i> var. <i>paniculatus</i>	1	0	0	0
Junc	<i>Juncus phaeocephalus</i> var. <i>phaeocephalus</i>	0	1	0	1
Junc	<i>Juncus rugulosus</i>	1	0	2	0
Junc	<i>Juncus textilis</i>	1	2	0	0
Junc	<i>Juncus torreyi</i>	0	0	0	0
Junc	<i>Juncus xiphioides</i>	5	4	1	2

FAMILY <sup>1</sup>	Species <sup>2</sup>	Sta Monica Mtns		Simi Hills	
		V <sup>3</sup>	R	V <sup>3</sup>	R
Juncagin	<i>Triglochin concinna</i> var. <i>concinna</i>	5	2	0	0
Lemn	<i>Lemna gibba</i>	0	0	0	0
Lemn	<i>Lemna minor</i>	0	0	0	1
Lemn	<i>Lemna sp.</i>	0	3	0	1
Lemn	<i>Lemna trisulca</i>	0	0	0	0
Lemn	<i>Lemna turionifera</i>	0	0	0	0
Lemn	<i>Lemna valdiviana</i>	0	1	0	0
Lemn	<i>Wolffiella lingulata</i>	0	0	0	0
Lili	<i>Fritillaria biflora</i> var. <i>biflora</i>	8	1	0	0
Lili	<i>Lilium humboldtii</i> subsp. <i>ocellatum</i>	4	7	0	0
Melanth	<i>Zigadenus fremontii</i>	9	6	0	5
Najad	<i>Najas flexilis</i>	0	0	0	0
Orchid	<i>Epipactis gigantea</i>	5	4	0	0
Orchid	<i>Piperia unalascensis</i>	2	1	0	0
Po	<i>Achnatherum brachychaetum</i>	1	0	0	0
Po	<i>Achnatherum coronatum</i>	3	23	1	6
Po	<i>Agrostis exarata</i>	1	6	0	1
Po	<i>Agrostis gigantea</i>	0	1	0	0
Po	<i>Agrostis pallens</i>	3	6	0	1
Po	<i>Agrostis stolonifera</i>	1	2	0	0
Po	<i>Agrostis viridis</i>	8	7	0	0
Po	<i>Alopecurus saccatus</i>	0	2	0	0
Po	<i>Ammophila arenaria</i>	0	0	0	0
Po	<i>Andropogon glomeratus</i> var. <i>scabriglumis</i>	1	3	0	0
Po	<i>Aristida adscensionis</i>	1	3	0	0
Po	<i>Arundo donax</i>	0	7	0	3
Po	<i>Avena barbata</i>	5	89	1	11
Po	<i>Avena fatua</i>	6	51	0	8
Po	<i>Avena sativa</i>	1	5	0	0
Po	<i>Bothriochloa barbinodis</i>	3	0	0	0
Po	<i>Brachypodium distachyon</i>	0	2	0	0
Po	<i>Briza minor</i>	0	0	0	0
Po	<i>Bromus arizonicus</i>	3	1	0	2
Po	<i>Bromus carinatus</i>	5	20	0	1
Po	<i>Bromus carinatus</i> var. <i>carinatus</i>	3	3	0	0
Po	<i>Bromus carinatus</i> var. <i>maritimus</i>	1	0	0	0
Po	<i>Bromus catharticus</i>	0	4	0	0
Po	<i>Bromus diandrus</i>	10	87	1	12
Po	<i>Bromus hordeaceus</i>	7	55	1	10
Po	<i>Bromus laevipes</i>	3	0	0	0
Po	<i>Bromus madritensis</i>	0	2	0	1
Po	<i>Bromus madritensis</i> subsp. <i>madritensis</i>	0	1	0	0
Po	<i>Bromus madritensis</i> subsp. <i>rubens</i>	15	91	2	12
Po	<i>Bromus sterilis</i>	0	0	0	4
Po	<i>Bromus tectorum</i>	5	16	0	3
Po	<i>Bromus trinii</i>	1	0	0	0
Po	<i>Chloris gayana</i>	0	0	0	0
Po	<i>Chloris virgata</i>	1	0	0	1
Po	<i>Cortaderia jubata</i>	0	1	0	0

FAMILY <sup>1</sup>	Species <sup>2</sup>	Sta Monica Mtns		Simi Hills	
		V <sup>3</sup>	R	V <sup>3</sup>	R
Po	<i>Cortaderia selliana</i>	0	7	0	1
Po	<i>Cortaderia sp.</i>	0	1	0	0
Po	<i>Crypsis schoenoides</i>	0	1	0	0
Po	<i>Crypsis vaginiflora</i>	1	1	0	0
Po	<i>Cynodon dactylon</i>	4	23	0	6
Po	<i>Dactylis glomerata</i>	0	2	0	1
Po	<i>Danthonia ?</i>	0	2	0	0
Po	<i>Digitaria ischaemum</i>	0	0	0	0
Po	<i>Digitaria sanguinalis</i>	1	1	0	0
Po	<i>Distichlis spicata</i>	3	15	0	2
Po	<i>Echinochloa colona</i>	0	0	0	0
Po	<i>Echinochloa crus-galli</i>	2	4	0	0
Po	<i>Ehrhartia calycina</i>	0	0	0	0
Po	<i>Ehrhartia erecta</i>	0	1	0	0
Po	<i>Elymus glaucus</i>	1	1	1	5
Po	<i>Elymus glaucus</i> subsp. <i>glaucus</i>	9	19	0	1
Po	<i>Elymus glaucus</i> X <i>E. elymoides</i>	0	1	0	0
Po	<i>Elymus multisetus</i>	0	7	0	0
Po	<i>Elymus stebbinsii</i>	1	0	0	0
Po	<i>Eragrostis barrelieri</i>	1	0	0	0
Po	<i>Eragrostis ciliaris</i>	0	1	0	0
Po	<i>Eragrostis hypnoides</i>	2	0	0	0
Po	<i>Eragrostis mexicana</i> subsp. <i>virescens</i>	3	0	0	0
Po	<i>Festuca arundinacea</i>	1	2	0	0
Po	<i>Festuca elmeri</i>	1	0	0	0
Po	<i>Festuca pratensis</i>	0	1	0	0
Po	<i>Festuca rubra</i>	0	1	0	0
Po	<i>Gastridium phleoides</i>	0	0	0	0
Po	<i>Gastridium ventricosum</i>	3	8	0	3
Po	<i>Hordeum brachyantherum</i> subsp. <i>californicum</i>	3	0	0	0
Po	<i>Hordeum intercedens</i>	1	1	0	0
Po	<i>Hordeum marinum</i> subsp. <i>gussoneanum</i>	1	0	0	0
Po	<i>Hordeum murinum</i>	0	32	0	3
Po	<i>Hordeum murinum</i> subsp. <i>glaucum</i>	8	5	1	0
Po	<i>Hordeum murinum</i> subsp. <i>leporinum</i>	2	32	0	9
Po	<i>Hordeum vulgare</i>	1	6	0	1
Po	<i>Koeleria macrantha</i>	7	1	0	0
Po	<i>Lamarckia aurea</i>	5	24	1	5
Po	<i>Leptochloa fascicularis</i>	1	1	0	0
Po	<i>Leptochloa uninervia</i>	4	5	0	0
Po	<i>Leymus condensatus</i>	5	83	0	9
Po	<i>Leymus triticoides</i>	0	3	0	1
Po	<i>Lolium multiflorum</i>	5	30	1	2
Po	<i>Lolium perenne</i>	1	10	0	0
Po	<i>Lolium rigidum</i> subsp. <i>lepturoides</i>	1	0	0	0
Po	<i>Lolium temulentum</i>	2	0	0	0
Po	<i>Melica californica</i>	4	2	1	1
Po	<i>Melica frutescens</i>	0	1	0	0
Po	<i>Melica imperfecta</i>	3	43	1	11

FAMILY <sup>1</sup>	Species <sup>2</sup>	Sta Monica Mtns		Simi Hills	
		V <sup>3</sup>	R	V <sup>3</sup>	R
Po	<i>Monanthochloe littoralis</i>	1	0	0	0
Po	<i>Muhlenbergia asperifolia</i>	0	0	0	0
Po	<i>Muhlenbergia microsperma</i>	9	3	0	3
Po	<i>Muhlenbergia rigens</i>	2	4	0	1
Po	<i>Nassella cernua</i>	3	2	0	4
Po	<i>Nassella lepida</i>	9	46	0	7
Po	<i>Nassella pulchra</i>	6	31	1	8
Po	<i>Panicum capillare</i>	0	0	0	0
Po	<i>Panicum miliaceum</i>	0	1	0	0
Po	<i>Parapholis incurva</i>	0	2	0	0
Po	<i>Paspalum dilatatum</i>	2	3	0	0
Po	<i>Paspalum distichum</i>	3	0	0	0
Po	<i>Pennisetum clandestinum</i>	0	3	0	0
Po	<i>Pennisetum setaceum</i>	1	16	0	0
Po	<i>Pennisetum villosum</i>	0	0	0	0
Po	<i>Phalaris aquatica</i>	2	2	0	1
Po	<i>Phalaris canariensis</i>	0	2	0	2
Po	<i>Phalaris caroliniana</i>	0	5	0	0
Po	<i>Phalaris minor</i>	1	1	0	0
Po	<i>Phalaris paradoxa</i>	0	1	0	0
Po	<i>Phleum pratense</i>	0	1	0	0
Po	<i>Phragmites australis</i>	0	0	0	0
Po	<i>Piptatherum miliaceum</i>	3	39	0	4
Po	<i>Poa annua</i>	2	9	0	0
Po	<i>Poa bulbosa</i>	0	5	0	0
Po	<i>Poa howellii</i>	0	0	0	0
Po	<i>Poa palustris</i>	1	0	0	0
Po	<i>Poa pratensis</i> subsp. <i>pratensis</i>	0	1	0	1
Po	<i>Poa secunda</i> subsp. <i>secunda</i>	7	14	1	3
Po	<i>Polypogon elongatus</i>	1	0	0	0
Po	<i>Polypogon interruptus</i>	2	0	1	1
Po	<i>Polypogon monspeliensis</i>	9	37	1	4
Po	<i>Schismus arabicus</i>	0	4	1	1
Po	<i>Schismus barbatus</i>	4	20	0	7
Po	<i>Setaria gracilis</i>	2	1	0	0
Po	<i>Setaria pumila</i>	0	0	0	0
Po	<i>Sorghum halapense</i>	2	6	0	0
Po	<i>Sporobolus indicus</i>	0	0	0	0
Po	<i>Stenotaphrum secundatum</i>	0	0	0	0
Po	<i>Triticum aestivum</i>	1	1	0	0
Po	<i>Vulpia bromoides</i>	1	0	0	0
Po	<i>Vulpia microstachys</i> var. <i>ciliata</i>	1	1	0	3
Po	<i>Vulpia microstachys</i> var. <i>microstachys</i>	1	0	0	0
Po	<i>Vulpia microstachys</i> var. <i>pauciflora</i>	8	12	0	1
Po	<i>Vulpia myuros</i>	2	12	0	2
Po	<i>Vulpia myuros</i> var. <i>hirsuta</i>	4	46	1	2
Po	<i>Vulpia myuros</i> var. <i>myuros</i>	3	1	0	1
Po	<i>Vulpia octoflora</i>	4	3	0	1
Po	<i>Vulpia octoflora</i> var. <i>hirtella</i>	1	0	0	0

FAMILY <sup>1</sup>	Species <sup>2</sup>	Sta Monica Mtns		Simi Hills	
		V <sup>3</sup>	R	V <sup>3</sup>	R
Po	<i>Vulpia octoflora</i> var. <i>octaflora</i>	1	0	0	0
Poa	<i>Vulpia microstachys</i> var. <i>confusa</i>	1	0	0	0
Potamogeton	<i>Potamogeton crispus</i>	0	0	0	0
Potamogeton	<i>Potamogeton nodosus</i>	0	0	0	1
Potamogeton	<i>Potamogeton pectinatus</i>	5	1	0	1
Potamogeton	<i>Ruppia cirrhosa</i>	3	0	0	0
Potamogeton	<i>Ruppia maritima</i>	0	0	0	0
Typh	<i>Typha angustifolia</i>	0	5	0	2
Typh	<i>Typha domingensis</i>	4	11	1	1
Typh	<i>Typha latifolia</i>	5	21	0	3
Zannichelli	<i>Zannichellia palustris</i>	2	0	0	0
Zoster	<i>Phyllospadix scouleri</i>	0	0	0	0
Zoster	<i>Phyllospadix torreyi</i>	1	0	0	0
Zoster	<i>Zostera marina</i>	0	0	0	0

1. Placement of species in families often differs from *The Jepson Manual*, especially for the Monocts.
2. Reports that were identified only to genus are not listed unless it is the only record for the genus in the flora.

In cases where two or more subspecies or varieties exist but vouchers and reports were only identified to species, then they are listed only at the species level. If only one subspecies or variety is known from the area, then vouchers or reports only identified to species level are listed at the subspecific or varietal level.

Many cultivated plants appear on this list. Those that are not reproducing in the wild will be eliminated.

Species listed in the SMMNRA-Plant Species but in this list are under another name or not at all

*Digitaria ciliaris* is treated as *D. sanguinalis*.

*Frangula californica* ssp. *californica* is treated as *Rhamnus californica*.

*F. californica* ssp. *tomentalla* is treated as *Rhamnus tomentella*.

*Pennisetum glaucum* is treated as *Setaria pumila*.

*Selaginella pilifera* is native to Texas and a dubious introduction, but because it is in the nursery trade there is a possibility that it has established in the wild.

3. Species without vouchers are candidates for deletion from the flora. Some of these species were in the *Flora of the Santa Monica Mountains, California* by Raven et. al (1986), but are only known from within the city limits of Santa Monica and not within the boundaries of the Santa Monica Mtns.

Table 2. Reports from which plant occurrence data was incorporated into the SMM SH database.

Project Name:	Tentative Tract, Parcel Map, Zone Change number	LN <sup>1</sup>	Prepared by:	Report No. <sup>2</sup>	Report Date:	Biologist/Botanist:	Survey Dates:
153-77-sub	TT 23377	2738	ETI	1052	Sep-86	Lee Jones (Athene Assoc.)	
Ahmanson Ranch		2942 to 2945	Sapphos Environmental Inc.	1081	23-Mar-01		
Ahmanson Ranch		2942 to 2945	Envicom	1080	Jul-89		
Bel Air Crest Estates	TT 41784	1381	Goldrich and Kest	1006	Dec-83		May to July-81
Calabasas	TT 37893	1380	Michael L. Ahlering & Assoc.	1004	Apr-80	Haines	16-Mar-80
Calabasas Park West Project	TT 35596, Zone Change 86-540	2394 to 2398	Impact Sciences, Inc.	1043	15-Apr-88	Carl Wishner (Envicom)	Jan to Jun-87
Calabasas Promenade	PM 22131, ZC 91-1	2374	Impact Sciences	1037	22-Nov-91		
Calabasas Road Extension		1922 to 1926	Envicom Corp	1025	29-Jun-87		Jan to Jun-1987
Calabasas Road Office Development Draft EIR	ZC 84-054	2757	Michael Brandman Associates	1062	Dec-84	Paul Principe	July & Aug-84
Camarillo Regional Golf Course & Amphitheatre	SCH 96071108	2765 to 2770	Impact Sciences, Inc.	1064	5-May-97		Aug-95; May, Jun, Jul & Sep-96

Project Name:	Tentative Tract, Parcel Map, Zone Change number	LN <sup>1</sup>	Prepared by:	Report No. <sup>2</sup>	Report Date:	Biologist/Botanist:	Survey Dates:
Canyon Oaks Development	TT 35999	2742 to 2744	Michael Brandman Assoc; Jim Hinzdel & Assoc., Inc.	1056; 1057	Dec-92	Larry D. Munsey (Jim Hinzdel & Assoc., Inc.)	14-Oct-82
Cold Creek Ranch Project	TT 33482	1753, 1754	Warren B. Houghton	1023	4-Feb-85		
Continental Communities	TT 47927	2902 to 2905	Planning Center; Bio Assess Services	1074	Sep-96	Ty Garrison	Apr to Jun-90; May-91; Dec-94
Corral Cyn and Puerco Cyn	TT 34508	1382 to 1392	Michael L. Ahlering & Assoc.	1007, 1019	30-Apr-79	Ted L. Hanes	13 to 21-Oct-78
Corral Cyn and Puerco Cyn	TT 41651	1382 to 1392	Michael L. Ahlering and Assoc., 1981	1019	Nov-81	P.Y. O'Brien	Apr to May-81
Corral Cyn and Puerco Cyn	TT 41651	1382 to 1392	Michael L. Ahlering and Assoc.	1004	3-Jun-05	P.Y. O'Brien	Apr to May-81
Cowles Temescal Canyon Reserve		1683 to 1686	Univ Calif, Natural Land and Water Reserves Systems	1022	Nov-78		
Dayton Canyon Estates, Woolsey Canyon Annexation	EIR 98-0227	2773 to 2776	Bon Terra Consulting	1065	Nov-98	Brian Daniels, Sandra Leatherman	May to Jul-98
Dos Vientos Ranch	4831	1973, 1974	Michael Brandman Assoc	1028	Apr-96		13-Apr, 16 & 23-May, 16-Jun, 27 & 28-Jul, 9-Sep-95
Dos Vientos Ranch	4831	1992, 1993	Envicom Corp	1029	27-Jun-94		
Dos Vientos Ranch	Land Use Ammendment LU-85-143	1934 to 1938	McClelland Environmental Services	1027	31-May-85	Gregory Smith	31-Aug-78

Table 2. Page 2

Project Name:	Tentative Tract, Parcel Map, Zone Change number	LN <sup>1</sup>	Prepared by:	Report No. <sup>2</sup>	Report Date:	Biologist/Botanist:	Survey Dates:
Draft EIR on Coastal Access Improvements at El Sol, El Pescador, and La Piedra Beaches		1528, 1529, 2734,	State Parks	1049			
Draft EIR, Malibu Valley, TT 45465j	TT 45465	2735, 2736	Ultrasystems Inc	1050	Mar-88	Ted Hanes	Sep-80 & 20-May-87
Draft EIR, TT 38937	TT 38937	2756	Ultrasystems, Inc	1061	Jul-82	Ted Hanes	Spring-82
Eastridge Estates	TT 37838	2377	Tierra Madre Associates	1040	16-Mar-84	Tierra Madre Assoc.	16-Mar-84
EIR Danielson Ranch, Rancho Sierra Vista/Danielson Ranch	Z-77-438	1927 to 1933		1026	1-Dec-78	143	
El Pescador, La Piedra, and El Matador State Beaches		1528 to 1530	Calif Dept Park & Rec	1011	1982		
Evans-Malibu Property, Draft EIR TT 29164, Malibu, LA Co	TT 29164	2739	South Bay Engineering Corp	1053	2-Jan-75		5-Aug-74
Extension Prkwy Calabasas		1916 to 1921	Envicom Corp	1024	29-Jun-87		Jan to Jun-1987
Hill Canyon Regional Recreation Facility, EIR 307		2781 to 2784	Environmental Science Associates	1066	Jan-99	David Bramlet	1997; Apr & May-98
Huntington Hartford Estates	TT 39213	1576 & 1577	Jennings Engineering Co.	1020	Dec-82	J.P.Quinn	15 & 16-Jan-82
Jones Sepulveda Canyon Reserve		1687	Univ Calif, Natural Land and Water Reserves Systems	1022	Nov-78		

Table 2. Page 3

Project Name:	Tentative Tract, Parcel Map, Zone Change number	LN <sup>1</sup>	Prepared by:	Report No. <sup>2</sup>	Report Date:	Biologist/Botanist:	Survey Dates:
Lake Eleanor Parcel		2787 to 2793	Westec Services	1070	Feb-88		
Las Virgenes Ranch	TT 38509	1508 to 1511	Ultrasystems, Inc	1010	1980		
Las Virgenes Ranch	TT 39509	1508 to 1511	VTN Los Angeles	1010	May-80	Gregory Poseley (Ultrasystems Inc.)	14-Jun-77
Las Virgenes Ranch	TT 39509	1508 to 1511	Ultrasystems Inc.	1010	Sep-80	Gregory Poseley (Ultrasystems Inc.)	14-Jun-77
Las Virgenes Ranch	TT 39509	1508 to 1511	VTN Los Angeles	1010	14-Jun-77	Posely	1-May-77
Latigo Cyn. Baller Rd	PM 10881	2375	Warden & Assoc	1038	5-May-80	James Quinn	12 & 13-Apr-80
LAUSD Temescal Canyon, Alternative School Site		1546	Ultrasystems, Inc.	1014	Jun-80	Haines	19-Dec-79
Liberty Canyon, Proj No. 90152	TT 49611	2754	Michael Brandman Assoc.	1059	Aug-92	Vince Coleman (Michael Brandman Assocs.)	5 to 13-Apr-90
Lindero Canyon Road Landfill	Project GP 1557/PGP 765	1560	Jim Hinzel & Assoc.	1016	Sep-80		17-Apr-80
Little Sycamore Canyon, 91168	TT 50718	2750 to 2752	The Planning Center (biological report)	1058	May-93	Timothy Ross	31-Aug, 1, 7, & 22- Sep-91
Malibu Country Club	TT 46592	2737	Planning Consultants Research	1051	Dec-88	Ted Hanes	

Table 2. Page 4

Project Name:	Tentative Tract, Parcel Map, Zone Change number	LN <sup>1</sup>	Prepared by:	Report No. <sup>2</sup>	Report Date:	Biologist/Botanist:	Survey Dates:
Malibu Investors	PM 13316	1571	Envicom Corp.	1018	20-Aug-81	Smith-Cox Kramer	1-Aug-81
Malibu Lagoon, a Baseline Ecological Survey		2389	B. Sean Manion, Jean H. Dillingham (eds.)	1035, 507, 508	1987-1988		
Malibu Terrace	TT 87527	2906, 2907	Michael Brandman Associates	1075	May-89		
Mandeville Canyon, Draft EIR No.419-81-SUB	TT 41726	2732	Jim Hinzel & Associates, Inc.	1047	Sep-82	Larry Munsey	Nov-91 & Feb-92
Montevideo Country Club	TT 35999	1536 to 1539	ESCO, Jim Hinzel & Assoc., Inc.	1013	Jul-86	Larry D. Munsey (Jim Hinzel & Assoc., Inc.)	14-Oct-82
Montevideo Country Club	TT 35999	1536 to 1539	Jim Hinzel & Assoc, Inc	1013	Jan-85	Munsey	Apr to May-81
Mulholland Estates	TT 26135, 692-81- ZC (SUB)	2382	Envicom Corp	1041	Jul-82	Robin Smith-Cox	Jan to Mar-81
Mulholland Hills Estates, 91-0325(sub)(zc)	TT 36504	2755	Envicom?	1060	Jan-93	Carl Wishner	14 to 17-May-91
Natoma Property, Draft EIR No 366-79-SUB	TT 36504	2731		1046		Steve Dee	
Nickerson Arroyo Sequit Reserve		1682	Univ Calif, Natural Land and Water Reserves Systems	1022	Nov-78		
Oak Park Community	3887 & 3803	1995 to 2005	Biological Consultants	1030	3-Sep-82	Thomas A. Scott, Harold A. Wier	2-Apr-82 to 31-May- 82

Table 2. Page 5

Project Name:	Tentative Tract, Parcel Map, Zone Change number	LN <sup>1</sup>	Prepared by:	Report No. <sup>2</sup>	Report Date:	Biologist/Botanist:	Survey Dates:
Oak Park Community Plan	3887 & 3803		Biological Consultants	1030	3-Sep-82	Thomas A. Scott & Harold A. Wier	2-Apr to 31-May-82
Oak Park Zone III General Plan ...		2009	The Planning Corp of Sta Barbara	1031		Rachel Tierney	28-Nov-90
Paramount Ranch Project. Response to Comments, Draft EIR,	ZC 86-010	2370 to 2373	Envicom Corp	1037			
Pepperdine University Upper Campus Development		2022	Envicom Corp	1032	Jul-98		10-Jun-97 to 22-Jun-98
Pepperdine University, Specific Plan EIR 1982-1997		2022	Bright and Assoc	1033	Dec-83		
Portions of Tracts 31122 & 32642	TT 31122 & 32642	1379	South Bay Engineering Corp.	1003	30-Jun-80		
Proposed Sokal University Expansion Plan		2733	Envicom Corp	1048	31-Mar-92	Carl Wishner & Keith Dobry	May-91 to Mar-92
Rancho Malibu Hotel, Conditional Use Permit		2898, 2899	Tierra Madre Consultants	1973	Jul-96		
Rancho Palo Comado	TT 43107	1547 to 1554	E.L. Pearson & Associates	1015	Oct-84	Kelly Steel (Envicom)	Apr & May-82
Reseda Property, Draft EIR No 366-79-SUB	TT 36503	2730		1045		Steve Dee	
Sherwood Towne Master Plan	TT 44727, Parcel 1 of Map 10284	2785	McClelland Engineers, Inc; Envicom Corp.	1067; 1068	Dec-87	Envicom Corporation	1983

Table 2. Page 6

Project Name:	Tentative Tract, Parcel Map, Zone Change number	LN <sup>1</sup>	Prepared by:	Report No. <sup>2</sup>	Report Date:	Biologist/Botanist:	Survey Dates:
Significant Ecological Area 6		2378 to 2381	Michael Brandman Assoc	1042	24-Dec-91		
Solair Design	PM 7678	1578	Solair Design	1021			
Sumatra Drive Subdivision	TT 41432	1393	Babayan	1008	May-83		
Sunset Pumping Plant and Force Main In PCH		2376	Los Angeles Dept of Water and Power	1039	Apr-92		Jun-91, Jan-92
Three Springs	TT 34835	1561 to 1570	South Bay Engineering Corp.	1017	19-May-78	Henrickson	20-Feb-78
Tradewood Property, EIR No. 79-77-ZC (SUB)	TT 33238	2758 to 2764		1063			
Triunfo Canyon, Agoura.	TT 36737	1531 to 1533	Environmental Planning Services	1912	29-Sep-79	Sol A. Karlin	12-Mar-78
TT 35998, Unincorp Malibu District, LA Co	TT 35998	2741	Environmental Planning Services	1055		Richard A. Burgess	
Vegetation Structure in northern Mixed Chaparral ... (Thesis)		2010 to 2021	Caitlin Marie Demsey	448			
Vesting Tentative Tract	TT 49856	2509 to 2914	Impact Sciences	1077	17-Jan-92	Impact Science staff biologist	Jan, Jul, & Nov-89; Mar & Apr-90
Vesting, 87-291	TT 46277	2794 to 2797	ESCO Engineering Service; Impact Science	1071; 1072		Ted L. Hanes (Impact Science)	14-Oct-88, Mar & Apr-93, 28 & 30-Sep-93

Table 2. Page 7

Project Name:	Tentative Tract, Parcel Map, Zone Change number	LN <sup>1</sup>	Prepared by:	Report No. <sup>2</sup>	Report Date:	Biologist/Botanist:	Survey Dates:
Westlake Terrace Homes	TT 35034	1378	George S. Moore	1002			
Westlake Terrace Homes	TT 35034	1378	George S. Moore	1002	1979		
Westlake Village General Plan		2915 to 2920	Envicom Corporation; Economics Research Assoc.	1079	Aug-83		
Woodland Oaks Manor	TT 33967	1331	Envicom Corp.	1005	11-Jul-78	Duane Vander Pluym	2 to 3-May-78
Woodridge	5040	2414, 2425	Impact Sciences	1044	21-May-97		2 to 5-Nov-95; 23- Apr, 22-May, 10 to 12-Jul-96
Zone Change 83-004	TT 35854	2908	Engineering Technology Inc	1076			
	TT 34274	2740	LD King	1054	10-Jul-78		
	TT 39790	1394 & 1395	Widmer & Assocs.	1009	Feb-82	Timothy J. Webster	4-Sep-81
	TT 45585	2786	Atlantis Scientific	1069	Jun-88		Oct & Nov-87

Footnotes

1. of LOCATION database.
2. equals CLCTRNO of COLLECTORS database.